



**BOEING REALTY CORPORATION
FORMER C-6 FACILITY
LOS ANGELES, CALIFORNIA**

TECHNICAL MEMORANDUM

**IMPORT SOIL EVALUATION
USE OF SOIL SOURCE GG AS IMPORT TO PARCEL C**

To: Mr. Brian Mossman
Boeing Realty Corporation
3855 Lakewood Blvd.
Building 1A MC D001-0097
Long Beach, CA 90846

From: Haley & Aldrich, Inc.

Date: April 8, 2003

Re: Import Soil Evaluation, Use of Soil Source GG as Import to Parcel C, Boeing Realty Corporation, Former C-6 Facility – Parcel C, Los Angeles, California

Haley & Aldrich, Inc. is herein providing this technical memorandum to summarize our recommendations regarding the use of an identified potential soil source, herein referred to as Source GG, as import to Parcel C of the Boeing Realty Corporation's (BRC) Former C-6 Facility in Los Angeles, California (subject parcel). Based on our review of the environmental information provided for the Source GG import soil, this soil may be used as fill soil on Parcel C.

OVERVIEW/PURPOSE

A source of soil (Source GG), up to approximately 15,000 cubic yards, has been identified as potential import soil for use on Parcel C. Haley & Aldrich, Inc. personnel collected two soil samples from approximately 15,000 cubic yards of stockpiled soil. The samples were tested in accordance with the protocol presented in the December 11, 2000 Import Soil Screening Program Plan prepared for Parcel C. This plan has been used as guidance to evaluate import soil from "offsite" sources. The criteria presented in the plan were then compared to the analytical results of the soil samples. The purpose of this technical memorandum is to present a summary of the evaluation of the Source GG soil and to provide recommendations for use as import for Parcel C.

LOCATION OF PROPOSED SOURCE GG IMPORT SOIL

The Source GG soil was generated from utility trenching activities conducted between April and August 2002 at the BRC former C-1 Facility located at 3855 Lakewood Boulevard in the City of Long Beach, California. The BRC former C-1 Facility was previously used for the manufacturing of aircraft. The locations of the utility trenches are shown on Figure 1, and are generally located in environmental investigation areas (EIAs) A, B, E, F, D, K, and O. The soil was excavated to a maximum depth of approximately 12 feet below ground surface (bgs) and are currently stockpile in EIA K at the BRC former C-1 Facility (Figure 1).

Based on the results of the Phase II investigation conducted at the BRC former C-1 Facility, the utility trench was predominantly located in areas that were not impacted, except two areas where there are known petroleum hydrocarbon impacts. TPH-impacted soils encountered in these areas were identified through headspace screening and visible indicators (i.e., staining), were segregated, and were subsequently disposed of offsite at an appropriately regulated facility. Thus, the Source GG soil was generated from areas that did not have known impacts and did not contain indications of possible hazardous substances or petroleum hydrocarbon releases.

COMPARISON OF ANALYTICAL RESULTS TO IMPORT SOIL GUIDANCE CRITERIA

The laboratory report for the soil samples collected from the Source GG soil is presented as Appendix A. Each sample was tested for metals, and various organic chemicals, including total petroleum hydrocarbons (TPH), polynuclear aromatic hydrocarbons (PAHs), and volatile organic compounds (VOCs). VOCs were not detected in the two soil samples collected. A review of the laboratory results indicates that the TPH and PAH results are within the site-specific import soil evaluation criteria presented in the December 11, 2000 Import Soil Screening Program Plan. A summary of the detected organic compounds and their associated site-specific soil import criteria are presented in Table 1. The remaining organic compounds on the analyte list were not detected, and their detection limits are less than or equal to the soil import criteria.

Table 1. Summary of Detected Organic Results and Associated Site-Specific Import Soil Criteria

Sample Identification	Chemical	Reported Concentration (mg/kg)	Site-Specific Import Soil Criterion (mg/kg)
WP0001_SS083002_0001	Benzo(g,h,i)perylene	0.011	0.016
	Total petroleum hydrocarbons (C8-C39)	41	<10 - 2,000
WP0001_SS083002_0002	Total petroleum hydrocarbons (C20-C40+)	630	<10 - 5,000

Metals results that are greater than either the site-specific or southern California background criteria are listed in Table 2. Barium, beryllium, copper, molybdenum, nickel, lead, and vanadium results are greater than the site-specific criteria, but are within the reported southern California background literature value criteria. Only selenium is greater than the site-specific and southern California background literature value criteria, and is identified in bold in Table 2. The remaining metals on the analyte list are within the import soil criteria.

Table 2. Summary of Metals Results Greater Than Site-Specific Import Soil Criteria and Associated Site-Specific and Southern California Import Soil Criteria

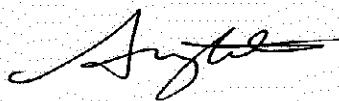
Sample Identification	Chemical	Reported Concentration (mg/kg)	Site-Specific Import Soil Criterion (mg/kg)	Maximum Regional (Southern California) Background Criterion (mg/kg)
WP0001_SS083002_0001	Barium	170	135	560
	Beryllium	0.56	<0.5	1.2
	Copper	29.0	20	54
	Molybdenum	1.0	<1	1.4
	Nickel	21.1	18	28.2
	Selenium	0.55	0.43	0.43

WP0001_SS083002_0002	Vanadium	44.9	38	84.8
	Barium	155	135	560
	Beryllium	0.57	<0.5	1.2
	Copper	26.2	20	54
	Molybdenum	1.1	<1	1.4
	Lead	8.8	8	189.4
	Selenium	0.69	0.43	0.43

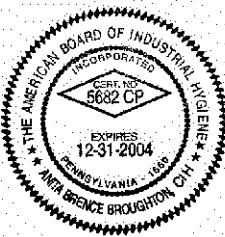
RECOMMENDATIONS FOR USE AS IMPORT SOIL

It is recommended that the subject approximately 15,000 cubic yards of soil comprising Source GG be used as fill soil on Parcel C. The reported soil concentrations for organic compounds are less than the site-specific criteria, and those for inorganic chemicals are also less than the site-specific and/or southern California background criteria, with the exception of selenium. Selenium was not a chemical of concern at the BRC former C-1 Facility as noted in the EIA-specific Phase II Soil Investigation and Screening Level Human Health Risk Assessments, prepared by Haley & Aldrich, Inc. and England Geosystem. In addition, the Source GG soil was obtained from areas that are not impacted based on the Phase II investigation results. Impacted materials encountered during the subject trenching activities were segregated and disposed of offsite. The relatively narrow range of the reported concentrations of selenium in the two soil samples tested suggest that these selenium concentrations are representative of background metals concentrations for the general geographic region from which the Source GG soil originated. The concentrations of selenium in the Source GG soil are also consistent with sample results collected from other apparently non-impacted potential import soils identified in Los Angeles County during the search for acceptable import soil for Parcel C. Thus, the reported concentration of selenium above the southern California background criterion is not considered to be a result of chemical contamination.

Sincerely yours,
HALEY & ALDRICH, INC.



Anita Broughton, CIH
Risk Assessment Task Manager



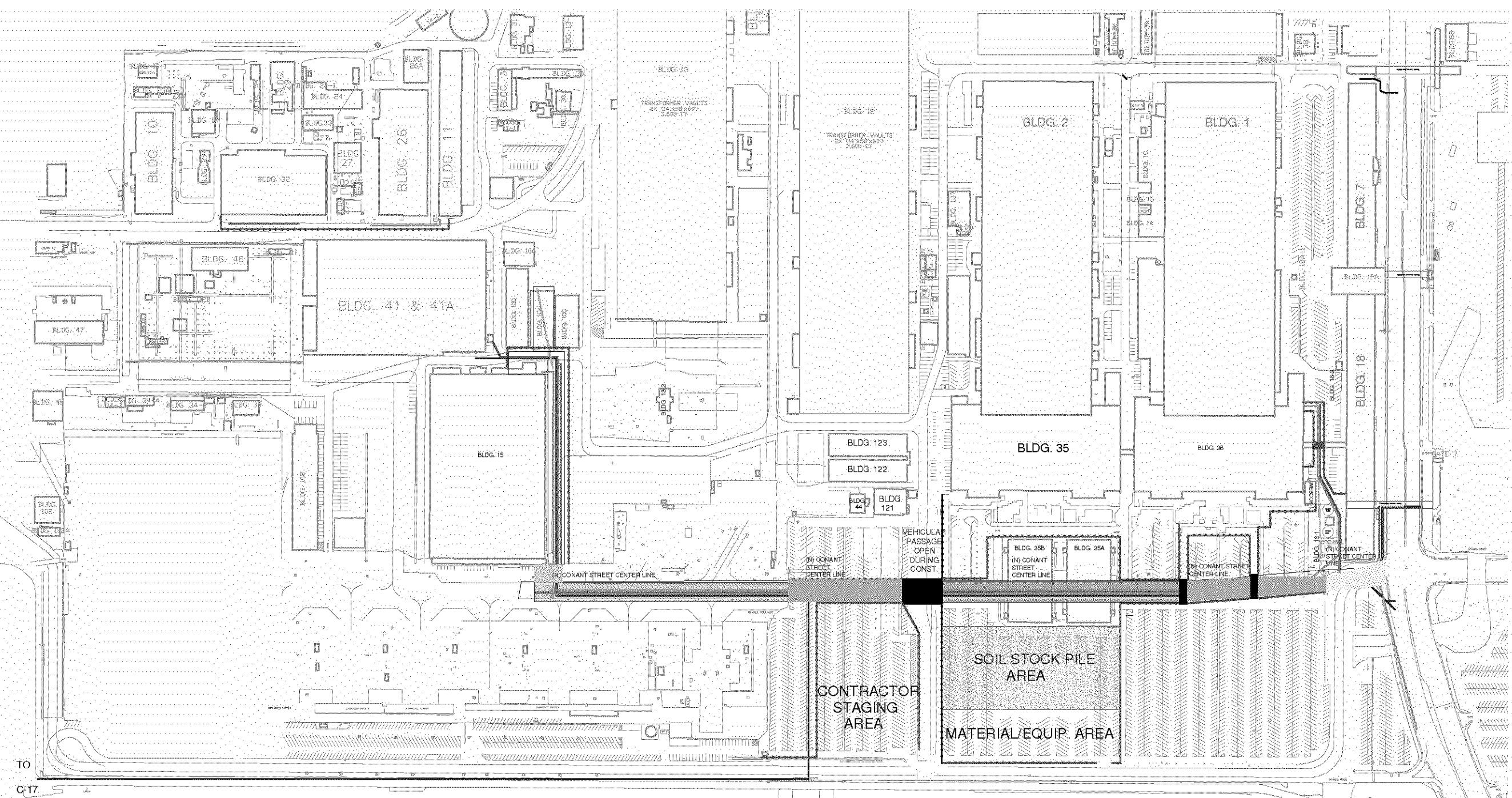

Scott Zachary
Project Manager

Attachments:

Figure 1 – Site Plan – Import Soil Source GG

Appendix A Laboratory Report

FIGURES

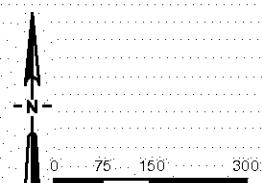


LEGEND

	(TBD) AREA CLOSED FOR UTILITY WORK
	ELECTRICAL
	AIR LINE
	DOMESTIC WATER
	FIRE SERVICE
	STORM SERVICE
	SANITARY SEWER
	LB-GAS
	(11/6-3/28/2002) AREA CLOSED FOR EXCAVATION & TO REMAIN CLOSED DURING UTILITY CONST.
	(12/14-1/31) START FIBER THEN FOLLOW WITH UTILITIES
	PEDESTRIAN WALKWAY - mLN. 1 WALKWAY TO BE OPEN DURING CONSTRUCTION
	VEHICULAR PASSAGE - ONE LANE TO BE MAINTAINED DURING CONSTRUCTION

NOTE: UPDATES TO SCHEDULE TO BE AVAILABLE ONCE CONTRACTS HAVE BEEN AWARDED. CONTRACTS TO BE AWARDED THE WEEK OF 10/16/01. FINAL STAGING AND SCHEDULING PLAN WILL FOLLOW.

FOR FURTHER UPDATES WEBCOR PERSONNEL WILL BE LOCATED IN BLDG. 157.



ALL DIMENSIONS AND LOCATIONS APPROXIMATE

NOTE: SITE PLAN PROVIDED BY WEBCOR BUILDERS.



BOEING REALTY CORPORATION
FORMER C-6 FACILITY
LOS ANGELES, CALIFORNIA

SITE PLAN - IMPORT SOIL SOURCE GG-
FORMER BOEING C-1 FACILITY
UTILITY CORRIDOR LOCATION MAP
LONG BEACH, CALIFORNIA

SCALE: AS SHOWN

FIGURE: 1

DATE: APRIL 2003

APPENDIX A
LABORATORY REPORT

SEVERN
TRENT
SERVICES

September 13, 2002

STL LOT NUMBER: E2H300298
NELAP Certification Number: 01118CA

Scott Zachary
Haley & Aldrich Inc
9040 Friars Road
Suite 220
San Diego, CA 92108

STL Los Angeles
1721 South Grand Avenue
Santa Ana, CA 92705-4808

Tel: 714 258 8610
Fax: 714 258 0921
www.stl-inc.com

Dear Mr. Zachary,

This report contains the analytical results for the two samples received under chain of custody by STL Los Angeles on August 30, 2002. These samples are associated with your BRC C-6 Torrance project.

All applicable quality control procedures met method-specified acceptance criteria. See Project Receipt Checklist for container temperature and conditions. Temperature reading between 2 to 6 degrees Celsius is considered within acceptable criteria. Any matrix related anomaly is footnoted within the report. The PAH by 8310 analysis was performed by Del Mar Analytical. Please see attached report for any related anomaly.

STL Los Angeles certifies that the tests performed at our facility meet all NELAP requirements for parameters for which accreditation is required or available. The case narrative is an integral part of the report. This report shall not be reproduced except in full, without the written approval of the laboratory.

If you have any questions, please feel free to call me at (714) 258-8610 extension 309.

Sincerely,



Diane Suzuki
Project Manager

CC: Project File

Page 1 of **000062** total pages in this report.

000001

STL Los Angeles is a part of Severn Trent Laboratories, Inc.



BOE-C6-0007384

***Chain of
Custody Record***

**SEVERN
TRENT
SERVICES**

Severn Trent Laboratories, Inc.

STL-4124 (0901)

Client Haley & Aldrich - SDG	Project Manager Scott ZACHARY	Date 8/30/02	Chain of Custody Number 143485																
Address 9040 Friars Rd, Suite 270	Telephone Number (Area Code)/Fax Number 619-280-9210	Lab Number E24300298	Page () of ()																
City SAN DIEGO	State CA	Zip Code 92108	Analysis (Attach list if more space is needed)																
Project Name and Location (State) C6 LOS ANGELES		Site Contact		Lab Contact															
Contract/Purchase Order/Quote No. 28882-002			Carrier/Waybill Number				Special Instructions/ Conditions of Receipt												
Sample I.D. No. and Description (Containers for each sample may be combined on one line)		Date	Time	Air	Aqueous	Sed.	Soil	Unpres.	Matrix	Containers & Preservatives									
WP0001-SS083002-0001		8/30/02	14:00		X			2	H2SO4	HNO3	HCl	NaOH	ZnAc ₂	NaOH	8/30	8/30	5	10	
WP0001-SS083002-0002		8/30/02	14:15			X		2							X	X	X	X	
Possible Hazard Identification		Sample Disposal										(A fee may be assessed if samples are retained longer than 1 month)							
<input type="checkbox"/> Non-Hazard	<input type="checkbox"/> Flammable	<input type="checkbox"/> Skin Irritant	<input type="checkbox"/> Poison B	<input checked="" type="checkbox"/> Unknown	<input type="checkbox"/> Return To Client					<input checked="" type="checkbox"/> Disposal By Lab	<input type="checkbox"/> Archive For	Months							
Turn Around Time Required												QC Requirements (Specify)							
<input type="checkbox"/> 24 Hours <input type="checkbox"/> 48 Hours <input type="checkbox"/> 7 Days <input type="checkbox"/> 14 Days <input type="checkbox"/> 21 Days <input checked="" type="checkbox"/> Other 5 DAYS																			
1. Relinquished By S. Z.												Date 8/30/02	Time 15:20	1. Received By		Shawn Zellner		Date 08/30/02	Time 15:25
2. Relinquished By												Date	Time	2. Received By				Date	Time
3. Relinquished By												Date	Time	3. Received By				Date	Time

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

BOE-C6-0007385

SEVERN
TRENT
SERVICES

Analytical Report

000004

BOE-C6-0007387

EXECUTIVE SUMMARY - Detection Highlights

E2H300298

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
WP0001_SS083002_0001 08/30/02 14:00	001			
C8-C9	3.3 J	10	mg/kg	SW846 8015B
C20-C23	2.0 J	10	mg/kg	SW846 8015B
C28-C31	16	10	mg/kg	SW846 8015B
C32-C35	13	10	mg/kg	SW846 8015B
C36-C39	6.0 J	10	mg/kg	SW846 8015B
Total Carbon Chain Range	41	10	mg/kg	SW846 8015B
Benzo(ghi)perylene	11	50	ug/kg	SW846 8310
Mercury	0.033 B	0.10	mg/kg	SW846 7471A
Aluminum	19100	20.0	mg/kg	SW846 6010B
Arsenic	6.3	1.0	mg/kg	SW846 6010B
Barium	170	2.0	mg/kg	SW846 6010B
Chromium	26.3	1.0	mg/kg	SW846 6010B
Beryllium	0.56	0.50	mg/kg	SW846 6010B
Lead	7.3	0.50	mg/kg	SW846 6010B
Selenium	0.55	0.50	mg/kg	SW846 6010B
Cobalt	9.3	5.0	mg/kg	SW846 6010B
Copper	29.0	2.5	mg/kg	SW846 6010B
Molybdenum	1.0 B	4.0	mg/kg	SW846 6010B
Nickel	21.1	4.0	mg/kg	SW846 6010B
Vanadium	44.9	5.0	mg/kg	SW846 6010B
Zinc	59.2	2.0	mg/kg	SW846 6010B
WP0001_SS083002_0002 08/30/02 14:15	002			
C20-C23	7.3 J	20	mg/kg	SW846 8015B
C24-C27	52	20	mg/kg	SW846 8015B
C28-C31	150	20	mg/kg	SW846 8015B
C32-C35	160	20	mg/kg	SW846 8015B
C36-C39	170	20	mg/kg	SW846 8015B
C40+	77	20	mg/kg	SW846 8015B
Total Carbon Chain Range	630	20	mg/kg	SW846 8015B
Mercury	0.085 B	0.10	mg/kg	SW846 7471A
Aluminum	20100	20.0	mg/kg	SW846 6010B
Arsenic	6.6	1.0	mg/kg	SW846 6010B
Barium	155	2.0	mg/kg	SW846 6010B
Chromium	26.9	1.0	mg/kg	SW846 6010B
Beryllium	0.57	0.50	mg/kg	SW846 6010B
Lead	8.8	0.50	mg/kg	SW846 6010B
Selenium	0.69	0.50	mg/kg	SW846 6010B
Cobalt	8.9	5.0	mg/kg	SW846 6010B
Copper	26.2	2.5	mg/kg	SW846 6010B
Molybdenum	1.1 B	4.0	mg/kg	SW846 6010B
Nickel	20.6	4.0	mg/kg	SW846 6010B

(Continued on next page)

000005

EXECUTIVE SUMMARY - Detection Highlights

E2H300298

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
WP0001_SS083002_0002	08/30/02 14:15	002		
Vanadium	47.2	5.0	mg/kg	SW846 6010B
Zinc	63.3	2.0	mg/kg	SW846 6010B

000006

METHODS SUMMARY

E2H300298

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>	<u>PREPARATION METHOD</u>
Extractable Petroleum Hydrocarbons	SW846 8015B	SANA AUTO-SHAKE
Inductively Coupled Plasma (ICP) Metals	SW846 6010B	SW846 3050B
Mercury in Solid Waste (Manual Cold-Vapor)	SW846 7471A	SW846 7471A
Polynuclear Aromatic Hydrocarbons by HPLC	SW846 8310	SW846 3550
Volatile Organics by GC/MS	SW846 8260B	SW846 5030
Volatile Petroleum Hydrocarbons	SW846 8015B	SW846 5030

References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

000007

SAMPLE SUMMARY

E2H300298

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
E7JQG	001	WP0001_SS083002_0001	08/30/02	14:00
E7JQ2	002	WP0001_SS083002_0002	08/30/02	14:15

NOTE (S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

000008

HALEY & ALDRICH INC

Client Sample ID: WP0001_SS083002_0001

GC/MS Volatiles

Lot-Sample #....: E2H300298-001 Work Order #....: E7JQG1AD Matrix.....: SOLID
 Date Sampled....: 08/30/02 14:00 Date Received...: 08/30/02 15:20 MS Run #.....: 2249230
 Prep Date.....: 09/04/02 Analysis Date...: 09/04/02
 Prep Batch #....: 2248286 Analysis Time...: 15:40
 Dilution Factor: 1
 Analyst ID.....: 064667 Instrument ID...: MSD
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	10	ug/kg	1.0
Chloromethane	ND	10	ug/kg	3.0
Vinyl chloride	ND	10	ug/kg	2.0
Bromomethane	ND	10	ug/kg	8.0
1,2-Dibromoethane	ND	5.0	ug/kg	3.0
Chloroethane	ND	10	ug/kg	2.0
Trichlorofluoromethane	ND	10	ug/kg	2.0
Acrolein	ND	100	ug/kg	30
1,1-Dichloroethene	ND	5.0	ug/kg	2.0
Iodomethane	ND	10	ug/kg	10
Acetone	ND	25	ug/kg	15
Carbon disulfide	ND	5.0	ug/kg	3.0
Methylene chloride	ND	5.0	ug/kg	3.0
trans-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
Acrylonitrile	ND	100	ug/kg	30
Methyl tert-butyl ether	ND	5.0	ug/kg	1.0
1,1-Dichloroethane	ND	5.0	ug/kg	1.0
Vinyl acetate	ND	10	ug/kg	5.0
2,2-Dichloropropane	ND	5.0	ug/kg	2.0
cis-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
2-Butanone	ND	25	ug/kg	15
Bromochloromethane	ND	5.0	ug/kg	1.0
Chloroform	ND	5.0	ug/kg	1.0
Tetrahydrofuran	ND	20	ug/kg	2.0
1,1,1-Trichloroethane	ND	5.0	ug/kg	1.0
1,1-Dichloropropene	ND	5.0	ug/kg	1.0
Carbon tetrachloride	ND	5.0	ug/kg	1.0
Benzene	ND	5.0	ug/kg	2.0
1,2-Dichloroethane	ND	5.0	ug/kg	1.0
Trichloroethene	ND	5.0	ug/kg	2.0
1,2-Dichloropropane	ND	5.0	ug/kg	1.0
Bromodichloromethane	ND	5.0	ug/kg	1.0
2-Chloroethyl vinyl ether	ND	10	ug/kg	5.0
cis-1,3-Dichloropropene	ND	5.0	ug/kg	1.0
4-Methyl-2-pentanone	ND	25	ug/kg	10
Toluene	ND	5.0	ug/kg	2.0
trans-1,3-Dichloropropene	ND	5.0	ug/kg	3.0

(Continued on next page)

000009

HALEY & ALDRICH INC

Client Sample ID: WP0001_SS083002_0001

GC/MS Volatiles

Lot-Sample #...: E2H300298-001 Work Order #...: E7JQG1AD Matrix.....: SOLID

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
1,1,2-Trichloroethane	ND	5.0	ug/kg	3.0
Tetrachloroethene	ND	5.0	ug/kg	2.0
2-Hexanone	ND	25	ug/kg	10
Dibromochloromethane	ND	5.0	ug/kg	1.0
Chlorobenzene	ND	5.0	ug/kg	2.0
Ethylbenzene	ND	5.0	ug/kg	2.0
Xylenes (total)	ND	5.0	ug/kg	3.0
Styrene	ND	10	ug/kg	2.0
Bromoform	ND	5.0	ug/kg	3.0
Isopropylbenzene	ND	5.0	ug/kg	2.0
p-Isopropyltoluene	ND	5.0	ug/kg	2.0
Bromobenzene	ND	5.0	ug/kg	2.0
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,2,3-Trichloropropane	ND	5.0	ug/kg	3.0
n-Propylbenzene	ND	5.0	ug/kg	2.0
2-Chlorotoluene	ND	5.0	ug/kg	2.0
4-Chlorotoluene	ND	5.0	ug/kg	2.0
1,3,5-Trimethylbenzene	ND	5.0	ug/kg	2.0
tert-Butylbenzene	ND	5.0	ug/kg	2.0
1,2,4-Trimethylbenzene	ND	5.0	ug/kg	2.0
sec-Butylbenzene	ND	5.0	ug/kg	2.0
1,3-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,4-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,2-Dichlorobenzene	ND	5.0	ug/kg	2.0
n-Butylbenzene	ND	5.0	ug/kg	2.0
1,2-Dibromo-3-chloro-propane	ND	10	ug/kg	3.0
1,2,4-Trichloro-benzene	ND	5.0	ug/kg	2.0
Hexachlorobutadiene	ND	5.0	ug/kg	2.0
1,2,3-Trichlorobenzene	ND	5.0	ug/kg	2.0
t-Butanol	ND	100	ug/kg	50
Isopropyl ether	ND	10	ug/kg	1.0
Tert-amyl methyl ether	ND	10	ug/kg	2.0
Tert-butyl ethyl ether	ND	10	ug/kg	1.0

SURROGATE	PERCENT RECOVERY	RECOVERY
		LIMITS
Bromofluorobenzene	107	(65 - 135)
1,2-Dichloroethane-d4	100	(60 - 140)
Toluene-d8	105	(70 - 130)

000010

HALEY & ALDRICH INC

WP0001_SS083002_0001

GC/MS Volatiles

Lot-Sample #: E2H300298-001 Work Order #: E7JQG1AD Matrix: SOLID

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

<u>PARAMETER</u>	<u>CAS #</u>	<u>ESTIMATED RESULT</u>	<u>RETENTION TIME</u>	<u>UNITS</u>
None				ug/kg

000011

HALEY & ALDRICH INC

Client Sample ID: WP0001_SS083002_0001

GC Volatiles

Lot-Sample #....: E2H300298-001 Work Order #....: E7JQG1AC Matrix.....: SOLID
Date Sampled....: 08/30/02 14:00 Date Received...: 08/30/02 15:20 MS Run #.....: 2252201
Prep Date.....: 08/31/02 Analysis Date...: 08/31/02
Prep Batch #....: 2246312 Analysis Time...: 10:42
Dilution Factor: 1
Analyst ID.....: 001464 Instrument ID...: G13
Method.....: SW846 8015B

PARAMETER	REPORTING			
	RESULT	LIMIT	UNITS	MDL
C6-C8	ND	1.0	mg/kg	0.20
SURROGATE		RECOVERY		
a,a,a-Trifluorotoluene (TFT)		RECOVERY	LIMITS	
		79	(60 - 130)	

000012

HALEY & ALDRICH INC

Client Sample ID: WP0001_SS083002_0001

GC Semivolatiles

Lot-Sample #....: E2H300298-001 Work Order #....: E7JQG1AA Matrix.....: SOLID
 Date Sampled....: 08/30/02 14:00 Date Received...: 08/30/02 15:20 MS Run #.....: 2249231
 Prep Date.....: 09/03/02 Analysis Date...: 09/03/02
 Prep Batch #....: 2249483 Analysis Time...: 17:29
 Dilution Factor: 1
 Analyst ID.....: 356074 Instrument ID...: G03
 Method.....: SW846 8015B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
C8-C9	3.3 J	10	mg/kg	2.0
C10-C11	ND	10	mg/kg	2.0
C12-C13	ND	10	mg/kg	2.0
C14-C15	ND	10	mg/kg	2.0
C16-C17	ND	10	mg/kg	2.0
C18-C19	ND	10	mg/kg	2.0
C20-C23	2.0 J	10	mg/kg	2.0
C24-C27	ND	10	mg/kg	2.0
C28-C31	16	10	mg/kg	2.0
C32-C35	13	10	mg/kg	2.0
C36-C39	6.0 J	10	mg/kg	2.0
C40+	ND	10	mg/kg	2.0
Total Carbon Chain Range	41	10	mg/kg	2.0
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS		
		(60 - 130)		
Benzo(a)pyrene	69			

NOTE(S) :

J Estimated result. Result is less than RL.

000013

HALEY & ALDRICH INC

Client Sample ID: WP0001_SS083002_0001

HPLC

Lot-Sample #....: E2H300298-001 Work Order #....: E7JQG1DF Matrix.....: SOLID
 Date Sampled....: 08/30/02 14:00 Date Received...: 08/30/02 15:20 MS Run #.....:
 Prep Date.....: 09/10/02 Analysis Date...: 09/10/02
 Prep Batch #....: 2256490 Analysis Time...: 00:00
 Dilution Factor: 10
 Analyst ID.....: 000024 Instrument ID...: N/A
 Method.....: SW846 8310

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acenaphthene	ND	500	ug/kg	
Acenaphthylene	ND	2000	ug/kg	
Anthracene	ND	20	ug/kg	
Benzo(a)anthracene	ND	20	ug/kg	
Benzo(b)fluoranthene	ND	50	ug/kg	
Benzo(k)fluoranthene	ND	20	ug/kg	
Benzo(ghi)perylene	11	50	ug/kg	
Benzo(a)pyrene	ND	20	ug/kg	
Chrysene	ND	50	ug/kg	
Dibenz(a,h)anthracene	ND	50	ug/kg	
Fluoranthene	ND	50	ug/kg	
Fluorene	ND	50	ug/kg	
Indeno(1,2,3-cd)pyrene	ND	50	ug/kg	
Naphthalene	ND	400	ug/kg	
Phenanthrene	ND	50	ug/kg	
Pyrene	ND	50	ug/kg	

000014

HALEY & ALDRICH INC

Client Sample ID: WP0001 SS083002 0001

TOTAL Metals

Lot-Sample #....: E2H300298-001 Matrix.....: SOLID
Date Sampled...: 08/30/02 14:00 Date Received..: 08/30/02 15:20

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #....:	2246283					
Aluminum	19100	20.0	mg/kg	SW846 6010B	09/03/02	E7JQG1AF
		Dilution Factor: 1		Analysis Time...:	17:54	Analyst ID.....: 021088
		Instrument ID...: M01		MS Run #.....:	2249227	MDL.....: 8.0
Arsenic	6.3	1.0	mg/kg	SW846 6010B	09/03/02	E7JQG1AG
		Dilution Factor: 1		Analysis Time...:	17:54	Analyst ID.....: 021088
		Instrument ID...: M01		MS Run #.....:	2249227	MDL.....: 0.40
Antimony	ND	6.0	mg/kg	SW846 6010B	09/03/02	E7JQG1AH
		Dilution Factor: 1		Analysis Time...:	17:54	Analyst ID.....: 021088
		Instrument ID...: M01		MS Run #.....:	2249227	MDL.....: 0.60
Barium	170	2.0	mg/kg	SW846 6010B	09/03/02	E7JQG1AJ
		Dilution Factor: 1		Analysis Time...:	17:54	Analyst ID.....: 021088
		Instrument ID...: M01		MS Run #.....:	2249227	MDL.....: 0.10
Cadmium	ND	0.50	mg/kg	SW846 6010B	09/03/02	E7JQG1AK
		Dilution Factor: 1		Analysis Time...:	17:54	Analyst ID.....: 021088
		Instrument ID...: M01		MS Run #.....:	2249227	MDL.....: 0.060
Chromium	26.3	1.0	mg/kg	SW846 6010B	09/03/02	E7JQG1AL
		Dilution Factor: 1		Analysis Time...:	17:54	Analyst ID.....: 021088
		Instrument ID...: M01		MS Run #.....:	2249227	MDL.....: 0.10
Beryllium	0.56	0.50	mg/kg	SW846 6010B	09/03/02	E7JQG1AM
		Dilution Factor: 1		Analysis Time...:	17:54	Analyst ID.....: 021088
		Instrument ID...: M01		MS Run #.....:	2249227	MDL.....: 0.050
Lead	7.3	0.50	mg/kg	SW846 6010B	09/03/02	E7JQG1AN
		Dilution Factor: 1		Analysis Time...:	17:54	Analyst ID.....: 021088
		Instrument ID...: M01		MS Run #.....:	2249227	MDL.....: 0.30
Selenium	0.55	0.50	mg/kg	SW846 6010B	09/03/02	E7JQG1AP
		Dilution Factor: 1		Analysis Time...:	17:54	Analyst ID.....: 021088
		Instrument ID...: M01		MS Run #.....:	2249227	MDL.....: 0.40

(Continued on next page)

000015

HALEY & ALDRICH INC

Client Sample ID: WP0001_SS083002_0001

TOTAL Metals

Lot-Sample #....: E2H300298-001

Matrix.....: SOLID

PARAMETER	RESULT	REPORTING			METHOD	PREPARATION-	WORK	ORDER #
		LIMIT	UNITS					
Silver	ND	1.0	mg/kg		SW846 6010B	09/03/02		E7JQG1AQ
		Dilution Factor: 1			Analysis Time...: 17:54		Analyst ID.....: 021088	
		Instrument ID...: M01			MS Run #.....: 2249227		MDL.....: 0.10	
Cobalt	9.3	5.0	mg/kg		SW846 6010B	09/03/02		E7JQG1AR
		Dilution Factor: 1			Analysis Time...: 17:54		Analyst ID.....: 021088	
		Instrument ID...: M01			MS Run #.....: 2249227		MDL.....: 0.10	
Copper	29.0	2.5	mg/kg		SW846 6010B	09/03/02		E7JQG1AT
		Dilution Factor: 1			Analysis Time...: 17:54		Analyst ID.....: 021088	
		Instrument ID...: M01			MS Run #.....: 2249227		MDL.....: 0.40	
Molybdenum	1.0 B	4.0	mg/kg		SW846 6010B	09/03/02		E7JQG1AU
		Dilution Factor: 1			Analysis Time...: 17:54		Analyst ID.....: 021088	
		Instrument ID...: M01			MS Run #.....: 2249227		MDL.....: 0.30	
Nickel	21.1	4.0	mg/kg		SW846 6010B	09/03/02		E7JQG1AV
		Dilution Factor: 1			Analysis Time...: 17:54		Analyst ID.....: 021088	
		Instrument ID...: M01			MS Run #.....: 2249227		MDL.....: 0.30	
Thallium	ND	1.0	mg/kg		SW846 6010B	09/03/02		E7JQG1AW
		Dilution Factor: 1			Analysis Time...: 17:54		Analyst ID.....: 021088	
		Instrument ID...: M01			MS Run #.....: 2249227		MDL.....: 0.80	
Vanadium	44.9	5.0	mg/kg		SW846 6010B	09/03/02		E7JQG1AX
		Dilution Factor: 1			Analysis Time...: 17:54		Analyst ID.....: 021088	
		Instrument ID...: M01			MS Run #.....: 2249227		MDL.....: 0.10	
Zinc	59.2	2.0	mg/kg		SW846 6010B	09/03/02		E7JQG1AO
		Dilution Factor: 1			Analysis Time...: 17:54		Analyst ID.....: 021088	
		Instrument ID...: M01			MS Run #.....: 2249227		MDL.....: 1.0	
Prep Batch #....:	2246288							
Mercury	0.033 B	0.10	mg/kg		SW846 7471A	09/03/02		E7JQG1AI
		Dilution Factor: 1			Analysis Time...: 15:32		Analyst ID.....: 021088	
		Instrument ID...: M04			MS Run #.....: 2249228		MDL.....: 0.020	

NOTE (S) :

B Estimated result. Result is less than RL.

000016

HALEY & ALDRICH INC

Client Sample ID: WP0001_SS083002_0002

GC/MS Volatiles

Lot-Sample #....: E2H300298-002 Work Order #....: E7JQ21AD Matrix.....: SOLID
 Date Sampled....: 08/30/02 14:15 Date Received...: 08/30/02 15:20 MS Run #.....: 2249230
 Prep Date.....: 09/04/02 Analysis Date...: 09/04/02
 Prep Batch #....: 2248286 Analysis Time...: 16:10
 Dilution Factor: 1
 Analyst ID.....: 064667 Instrument ID...: MSD
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	10	ug/kg	1.0
Chloromethane	ND	10	ug/kg	3.0
Vinyl chloride	ND	10	ug/kg	2.0
Bromomethane	ND	10	ug/kg	8.0
1,2-Dibromoethane	ND	5.0	ug/kg	3.0
Chloroethane	ND	10	ug/kg	2.0
Trichlorofluoromethane	ND	10	ug/kg	2.0
Acrolein	ND	100	ug/kg	30
1,1-Dichloroethene	ND	5.0	ug/kg	2.0
Iodomethane	ND	10	ug/kg	10
Acetone	ND	25	ug/kg	15
Carbon disulfide	ND	5.0	ug/kg	3.0
Methylene chloride	ND	5.0	ug/kg	3.0
trans-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
Acrylonitrile	ND	100	ug/kg	30
Methyl tert-butyl ether	ND	5.0	ug/kg	1.0
1,1-Dichloroethane	ND	5.0	ug/kg	1.0
Vinyl acetate	ND	10	ug/kg	5.0
2,2-Dichloropropane	ND	5.0	ug/kg	2.0
cis-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
2-Butanone	ND	25	ug/kg	15
Bromochloromethane	ND	5.0	ug/kg	1.0
Chloroform	ND	5.0	ug/kg	1.0
Tetrahydrofuran	ND	20	ug/kg	2.0
1,1,1-Trichloroethane	ND	5.0	ug/kg	1.0
1,1-Dichloropropene	ND	5.0	ug/kg	1.0
Carbon tetrachloride	ND	5.0	ug/kg	1.0
Benzene	ND	5.0	ug/kg	2.0
1,2-Dichloroethane	ND	5.0	ug/kg	1.0
Trichloroethene	ND	5.0	ug/kg	2.0
1,2-Dichloropropane	ND	5.0	ug/kg	1.0
Bromodichloromethane	ND	5.0	ug/kg	1.0
2-Chloroethyl vinyl ether	ND	10	ug/kg	5.0
cis-1,3-Dichloropropene	ND	5.0	ug/kg	1.0
4-Methyl-2-pentanone	ND	25	ug/kg	10
Toluene	ND	5.0	ug/kg	2.0
trans-1,3-Dichloropropene	ND	5.0	ug/kg	3.0

(Continued on next page)

000017

HALEY & ALDRICH INC

Client Sample ID: WP0001_SS083002_0002

GC/MS Volatiles

Lot-Sample #....: E2H300298-002 Work Order #....: E7JQ21AD Matrix.....: SOLID

PARAMETER	RESULT	REPORTING		MDL
		LIMIT	UNITS	
1,1,2-Trichloroethane	ND	5.0	ug/kg	3.0
Tetrachloroethene	ND	5.0	ug/kg	2.0
2-Hexanone	ND	25	ug/kg	10
Dibromochloromethane	ND	5.0	ug/kg	1.0
Chlorobenzene	ND	5.0	ug/kg	2.0
Ethylbenzene	ND	5.0	ug/kg	2.0
Xylenes (total)	ND	5.0	ug/kg	3.0
Styrene	ND	10	ug/kg	2.0
Bromoform	ND	5.0	ug/kg	3.0
Isopropylbenzene	ND	5.0	ug/kg	2.0
p-Isopropyltoluene	ND	5.0	ug/kg	2.0
Bromobenzene	ND	5.0	ug/kg	2.0
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,2,3-Trichloropropane	ND	5.0	ug/kg	3.0
n-Propylbenzene	ND	5.0	ug/kg	2.0
2-Chlorotoluene	ND	5.0	ug/kg	2.0
4-Chlorotoluene	ND	5.0	ug/kg	2.0
1,3,5-Trimethylbenzene	ND	5.0	ug/kg	2.0
tert-Butylbenzene	ND	5.0	ug/kg	2.0
1,2,4-Trimethylbenzene	ND	5.0	ug/kg	2.0
sec-Butylbenzene	ND	5.0	ug/kg	2.0
1,3-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,4-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,2-Dichlorobenzene	ND	5.0	ug/kg	2.0
n-Butylbenzene	ND	5.0	ug/kg	2.0
1,2-Dibromo-3-chloro-propane	ND	10	ug/kg	3.0
1,2,4-Trichloro-benzene	ND	5.0	ug/kg	2.0
Hexachlorobutadiene	ND	5.0	ug/kg	2.0
1,2,3-Trichlorobenzene	ND	5.0	ug/kg	2.0
t-Butanol	ND	100	ug/kg	50
Isopropyl ether	ND	10	ug/kg	1.0
Tert-amyl methyl ether	ND	10	ug/kg	2.0
Tert-butyl ethyl ether	ND	10	ug/kg	1.0
SURROGATE		PERCENT	RECOVERY	
		RECOVERY	LIMITS	
Bromofluorobenzene	109		(65 - 135)	
1,2-Dichloroethane-d4	104		(60 - 140)	
Toluene-d8	102		(70 - 130)	

000018

HALEY & ALDRICH INC

WP0001_SS083002_0002

GC/MS Volatiles

Lot-Sample #: E2H300298-002 Work Order #: E7JQ21AD Matrix: SOLID

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

<u>PARAMETER</u>	<u>CAS #</u>	<u>ESTIMATED RESULT</u>	<u>RETENTION TIME</u>	<u>UNITS</u>
None				ug/kg

000019

BOE-C6-0007402

HALEY & ALDRICH INC

Client Sample ID: WP0001_SS083002_0002

GC Volatiles

Lot-Sample #....: E2H300298-002 Work Order #....: E7JQ21AC Matrix.....: SOLID
Date Sampled....: 08/30/02 14:15 Date Received...: 08/30/02 15:20 MS Run #.....: 2252201
Prep Date.....: 08/31/02 Analysis Date...: 08/31/02
Prep Batch #....: 2246312 Analysis Time...: 11:10
Dilution Factor: 1
Analyst ID.....: 001464 Instrument ID...: G13
Method.....: SW846 8015B

PARAMETER	REPORTING			
	RESULT	LIMIT	UNITS	MDL
C6-C8	ND	1.0	mg/kg	0.20
<hr/>				
SURROGATE	PERCENT	RECOVERY	LIMITS	
a,a,a-Trifluorotoluene (TFT)	RECOVERY	(60 - 130)		
	82			

000020

HALEY & ALDRICH INC

Client Sample ID: WP0001_SS083002_0002

GC Semivolatiles

Lot-Sample #....: E2H300298-002 Work Order #....: E7JQ21AA Matrix.....: SOLID
 Date Sampled....: 08/30/02 14:15 Date Received...: 08/30/02 15:20 MS Run #.....: 2249231
 Prep Date.....: 09/03/02 Analysis Date...: 09/03/02
 Prep Batch #....: 2249483 Analysis Time...: 19:28
 Dilution Factor: 2
 Analyst ID.....: 356074 Instrument ID...: G03
 Method.....: SW846 8015B

<u>PARAMETER</u>	<u>REPORTING</u>			
	<u>RESULT</u>	<u>LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
C8-C9	ND	20	mg/kg	4.0
C10-C11	ND	20	mg/kg	4.0
C12-C13	ND	20	mg/kg	4.0
C14-C15	ND	20	mg/kg	4.0
C16-C17	ND	20	mg/kg	4.0
C18-C19	ND	20	mg/kg	4.0
C20-C23	7.3 J	20	mg/kg	4.0
C24-C27	52	20	mg/kg	4.0
C28-C31	150	20	mg/kg	4.0
C32-C35	160	20	mg/kg	4.0
C36-C39	170	20	mg/kg	4.0
C40+	77	20	mg/kg	4.0
Total Carbon Chain Range	630	20	mg/kg	4.0
<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>		
	<u>RECOVERY</u>	<u>LIMITS</u>	(60 - 130)	
Benzo(a)pyrene	77			

NOTE(S) :

J Estimated result. Result is less than RL.

000021

HALEY & ALDRICH INC

Client Sample ID: WP0001_SS083002_0002

HPLC

Lot-Sample #....: E2H300298-002 Work Order #....: E7JQ21A2 Matrix.....: SOLID
 Date Sampled....: 08/30/02 14:15 Date Received...: 08/30/02 15:20 MS Run #.....:
 Prep Date.....: 09/10/02 Analysis Date...: 09/10/02
 Prep Batch #....: 2256490 Analysis Time...: 00:00
 Dilution Factor: 10
 Analyst ID.....: 000024 Instrument ID...: N/A
 Method.....: SW846 8310

PARAMETER	REPORTING			
	RESULT	LIMIT	UNITS	MDL
Acenaphthene	ND	500	ug/kg	
Acenaphthylene	ND	2000	ug/kg	
Anthracene	ND	20	ug/kg	
Benzo(a)anthracene	ND	20	ug/kg	
Benzo(b)fluoranthene	ND	50	ug/kg	
Benzo(k)fluoranthene	ND	20	ug/kg	
Benzo(ghi)perylene	ND	50	ug/kg	
Benzo(a)pyrene	ND	20	ug/kg	
Chrysene	ND	50	ug/kg	
Dibenz(a,h)anthracene	ND	50	ug/kg	
Fluoranthene	ND	50	ug/kg	
Fluorene	ND	50	ug/kg	
Indeno(1,2,3-cd)pyrene	ND	50	ug/kg	
Naphthalene	ND	400	ug/kg	
Phenanthrene	ND	50	ug/kg	
Pyrene	ND	50	ug/kg	

000022

HALEY & ALDRICH INC

Client Sample ID: WP0001_SS083002_0002

TOTAL Metals

Lot-Sample #....: E2H300298-002 Matrix.....: SOLID
 Date Sampled....: 08/30/02 14:15 Date Received...: 08/30/02 15:20

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
Prep Batch #....:	2246283					
Aluminum	20100	20.0	mg/kg	SW846 6010B	09/03/02	E7JQ21AF
		Dilution Factor: 1		Analysis Time...: 18:23	Analyst ID.....: 021088	
		Instrument ID...: M01		MS Run #.....: 2249227	MDL.....: 8.0	
Arsenic	6.6	1.0	mg/kg	SW846 6010B	09/03/02	E7JQ21AG
		Dilution Factor: 1		Analysis Time...: 18:23	Analyst ID.....: 021088	
		Instrument ID...: M01		MS Run #.....: 2249227	MDL.....: 0.40	
Antimony	ND	6.0	mg/kg	SW846 6010B	09/03/02	E7JQ21AH
		Dilution Factor: 1		Analysis Time...: 18:23	Analyst ID.....: 021088	
		Instrument ID...: M01		MS Run #.....: 2249227	MDL.....: 0.60	
Barium	155	2.0	mg/kg	SW846 6010B	09/03/02	E7JQ21AJ
		Dilution Factor: 1		Analysis Time...: 18:23	Analyst ID.....: 021088	
		Instrument ID...: M01		MS Run #.....: 2249227	MDL.....: 0.10	
Cadmium	ND	0.50	mg/kg	SW846 6010B	09/03/02	E7JQ21AK
		Dilution Factor: 1		Analysis Time...: 18:23	Analyst ID.....: 021088	
		Instrument ID...: M01		MS Run #.....: 2249227	MDL.....: 0.060	
Chromium	26.9	1.0	mg/kg	SW846 6010B	09/03/02	E7JQ21AL
		Dilution Factor: 1		Analysis Time...: 18:23	Analyst ID.....: 021088	
		Instrument ID...: M01		MS Run #.....: 2249227	MDL.....: 0.10	
Beryllium	0.57	0.50	mg/kg	SW846 6010B	09/03/02	E7JQ21AM
		Dilution Factor: 1		Analysis Time...: 18:23	Analyst ID.....: 021088	
		Instrument ID...: M01		MS Run #.....: 2249227	MDL.....: 0.050	
Lead	8.8	0.50	mg/kg	SW846 6010B	09/03/02	E7JQ21AN
		Dilution Factor: 1		Analysis Time...: 18:23	Analyst ID.....: 021088	
		Instrument ID...: M01		MS Run #.....: 2249227	MDL.....: 0.30	
Selenium	0.69	0.50	mg/kg	SW846 6010B	09/03/02	E7JQ21AP
		Dilution Factor: 1		Analysis Time...: 18:23	Analyst ID.....: 021088	
		Instrument ID...: M01		MS Run #.....: 2249227	MDL.....: 0.40	

(Continued on next page)

000023

HALEY & ALDRICH INC

Client Sample ID: WP0001_SS083002_0002

TOTAL Metals

Lot-Sample #....: E2H300298-002

Matrix.....: SOLID

PARAMETER	RESULT	REPORTING			METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
		LIMIT	UNITS				
Silver	ND	1.0	mg/kg		SW846 6010B	09/03/02	E7JQ21AQ
		Dilution Factor: 1			Analysis Time...: 18:23	Analyst ID.....: 021088	
		Instrument ID...: M01			MS Run #.....: 2249227	MDL.....: 0.10	
Cobalt	8.9	5.0	mg/kg		SW846 6010B	09/03/02	E7JQ21AR
		Dilution Factor: 1			Analysis Time...: 18:23	Analyst ID.....: 021088	
		Instrument ID...: M01			MS Run #.....: 2249227	MDL.....: 0.10	
Copper	26.2	2.5	mg/kg		SW846 6010B	09/03/02	E7JQ21AT
		Dilution Factor: 1			Analysis Time...: 18:23	Analyst ID.....: 021088	
		Instrument ID...: M01			MS Run #.....: 2249227	MDL.....: 0.40	
Molybdenum	1.1 B	4.0	mg/kg		SW846 6010B	09/03/02	E7JQ21AU
		Dilution Factor: 1			Analysis Time...: 18:23	Analyst ID.....: 021088	
		Instrument ID...: M01			MS Run #.....: 2249227	MDL.....: 0.30	
Nickel	20.6	4.0	mg/kg		SW846 6010B	09/03/02	E7JQ21AV
		Dilution Factor: 1			Analysis Time...: 18:23	Analyst ID.....: 021088	
		Instrument ID...: M01			MS Run #.....: 2249227	MDL.....: 0.30	
Thallium	ND	1.0	mg/kg		SW846 6010B	09/03/02	E7JQ21AW
		Dilution Factor: 1			Analysis Time...: 18:23	Analyst ID.....: 021088	
		Instrument ID...: M01			MS Run #.....: 2249227	MDL.....: 0.80	
Vanadium	47.2	5.0	mg/kg		SW846 6010B	09/03/02	E7JQ21AX
		Dilution Factor: 1			Analysis Time...: 18:23	Analyst ID.....: 021088	
		Instrument ID...: M01			MS Run #.....: 2249227	MDL.....: 0.10	
Zinc	63.3	2.0	mg/kg		SW846 6010B	09/03/02	E7JQ21AO
		Dilution Factor: 1			Analysis Time...: 18:23	Analyst ID.....: 021088	
		Instrument ID...: M01			MS Run #.....: 2249227	MDL.....: 1.0	
Prep Batch #....:	2246288						
Mercury	0.085 B	0.10	mg/kg		SW846 7471A	09/03/02	E7JQ21AI
		Dilution Factor: 1			Analysis Time...: 15:37	Analyst ID.....: 021088	
		Instrument ID...: M04			MS Run #.....: 2249228	MDL.....: 0.020	

NOTE (S) :

B Estimated result. Result is less than RL.

000024

**SEVERN
TRENT
SERVICES**

QA/QC

000025

QC DATA ASSOCIATION SUMMARY

E2H300298

Sample Preparation and Analysis Control Numbers

<u>SAMPLE#</u>	<u>MATRIX</u>	<u>ANALYTICAL METHOD</u>	<u>LEACH BATCH #</u>	<u>PREP BATCH #</u>	<u>MS RUN#</u>
001	SOLID	SW846 8015B		2249483	2249231
	SOLID	SW846 8015B		2246312	2252201
	SOLID	SW846 7471A		2246288	2249228
	SOLID	SW846 8260B		2248286	2249230
	SOLID	SW846 6010B		2246283	2249227
	SOLID	SW846 8310		2256490	
002	SOLID	SW846 8015B		2249483	2249231
	SOLID	SW846 8015B		2246312	2252201
	SOLID	SW846 7471A		2246288	2249228
	SOLID	SW846 8260B		2248286	2249230
	SOLID	SW846 6010B		2246283	2249227
	SOLID	SW846 8310		2256490	

000026

BOE-C6-0007409

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #....: E2H300298
 MB Lot-Sample #: E2I050000-286
 Analysis Date...: 09/04/02
 Dilution Factor: 1

Work Order #....: E7P9E1AA
 Prep Date.....: 09/04/02
 Prep Batch #: 2248286
 Analyst ID.....: 064667

Matrix.....: SOLID
 Analysis Time...: 14:44
 Instrument ID...: MSD

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	METHOD
Dichlorodifluoromethane	ND	10	ug/kg	SW846 8260B
Chloromethane	ND	10	ug/kg	SW846 8260B
Vinyl chloride	ND	10	ug/kg	SW846 8260B
Bromomethane	ND	10	ug/kg	SW846 8260B
1,2-Dibromoethane	ND	5.0	ug/kg	SW846 8260B
Chloroethane	ND	10	ug/kg	SW846 8260B
Trichlorofluoromethane	ND	10	ug/kg	SW846 8260B
Acrolein	ND	100	ug/kg	SW846 8260B
1,1-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
Iodomethane	ND	10	ug/kg	SW846 8260B
Acetone	ND	25	ug/kg	SW846 8260B
Carbon disulfide	ND	5.0	ug/kg	SW846 8260B
Methylene chloride	ND	5.0	ug/kg	SW846 8260B
trans-1,2-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
Acrylonitrile	ND	100	ug/kg	SW846 8260B
Methyl tert-butyl ether	ND	5.0	ug/kg	SW846 8260B
1,1-Dichloroethane	ND	5.0	ug/kg	SW846 8260B
Vinyl acetate	ND	10	ug/kg	SW846 8260B
2,2-Dichloropropane	ND	5.0	ug/kg	SW846 8260B
cis-1,2-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
2-Butanone	ND	25	ug/kg	SW846 8260B
Bromochloromethane	ND	5.0	ug/kg	SW846 8260B
Chloroform	ND	5.0	ug/kg	SW846 8260B
Tetrahydrofuran	ND	20	ug/kg	SW846 8260B
1,1,1-Trichloroethane	ND	5.0	ug/kg	SW846 8260B
1,1-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
Carbon tetrachloride	ND	5.0	ug/kg	SW846 8260B
Benzene	ND	5.0	ug/kg	SW846 8260B
1,2-Dichloroethane	ND	5.0	ug/kg	SW846 8260B
Trichloroethene	ND	5.0	ug/kg	SW846 8260B
1,2-Dichloropropane	ND	5.0	ug/kg	SW846 8260B
Bromodichloromethane	ND	5.0	ug/kg	SW846 8260B
2-Chloroethyl vinyl ether	ND	10	ug/kg	SW846 8260B
cis-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
4-Methyl-2-pentanone	ND	25	ug/kg	SW846 8260B
Toluene	ND	5.0	ug/kg	SW846 8260B
trans-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
1,1,2-Trichloroethane	ND	5.0	ug/kg	SW846 8260B
Tetrachloroethene	ND	5.0	ug/kg	SW846 8260B
2-Hexanone	ND	25	ug/kg	SW846 8260B

(Continued on next page)

000027

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #....: E2H300298

Work Order #....: E7P9E1AA

Matrix.....: SOLID

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		<u>METHOD</u>
		<u>LIMIT</u>	<u>UNITS</u>	
Dibromochloromethane	ND	5.0	ug/kg	SW846 8260B
Chlorobenzene	ND	5.0	ug/kg	SW846 8260B
Ethylbenzene	ND	5.0	ug/kg	SW846 8260B
Xylenes (total)	ND	5.0	ug/kg	SW846 8260B
Styrene	ND	10	ug/kg	SW846 8260B
Bromoform	ND	5.0	ug/kg	SW846 8260B
Isopropylbenzene	ND	5.0	ug/kg	SW846 8260B
p-Isopropyltoluene	ND	5.0	ug/kg	SW846 8260B
Bromobenzene	ND	5.0	ug/kg	SW846 8260B
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	SW846 8260B
1,2,3-Trichloropropane	ND	5.0	ug/kg	SW846 8260B
n-Propylbenzene	ND	5.0	ug/kg	SW846 8260B
2-Chlorotoluene	ND	5.0	ug/kg	SW846 8260B
4-Chlorotoluene	ND	5.0	ug/kg	SW846 8260B
1,3,5-Trimethylbenzene	ND	5.0	ug/kg	SW846 8260B
tert-Butylbenzene	ND	5.0	ug/kg	SW846 8260B
1,2,4-Trimethylbenzene	ND	5.0	ug/kg	SW846 8260B
sec-Butylbenzene	ND	5.0	ug/kg	SW846 8260B
1,3-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260B
1,4-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260B
1,2-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260B
n-Butylbenzene	ND	5.0	ug/kg	SW846 8260B
1,2-Dibromo-3-chloro-propane	ND	10	ug/kg	SW846 8260B
1,2,4-Trichloro-benzene	ND	5.0	ug/kg	SW846 8260B
Hexachlorobutadiene	ND	5.0	ug/kg	SW846 8260B
1,2,3-Trichlorobenzene	ND	5.0	ug/kg	SW846 8260B
t-Butanol	ND	100	ug/kg	SW846 8260B
Isopropyl ether	ND	10	ug/kg	SW846 8260B
Tert-amyl methyl ether	ND	10	ug/kg	SW846 8260B
Tert-butyl ethyl ether	ND	10	ug/kg	SW846 8260B
<u>SURROGATE</u>		<u>PERCENT</u>	<u>RECOVERY</u>	
		<u>RECOVERY</u>	<u>LIMITS</u>	
Bromofluorobenzene	100	(65 - 135)		
1,2-Dichloroethane-d4	102	(60 - 140)		
Toluene-d8	102	(70 - 130)		

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

000028

METHOD BLANK REPORT

GC Volatiles

Client Lot #....: E2H300298
MB Lot-Sample #: E2I030000-312
Analysis Date...: 08/31/02
Dilution Factor: 1

Work Order #....: E7LK71AA
Prep Date.....: 08/31/02
Prep Batch #: 2246312
Analyst ID.....: 001464

Matrix.....: SOLID
Analysis Time...: 09:46
Instrument ID...: G13

PARAMETER	REPORTING			
	RESULT	LIMIT	UNITS	METHOD
C6-C8	ND	1.0	mg/kg	SW846 8015B
SURROGATE				
a,a,a-Trifluorotoluene (TFT)	PERCENT RECOVERY	RECOVERY LIMITS	(60 - 130)	

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

000029

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #....: E2H300298
MB Lot-Sample #: E2I060000-483
Analysis Date...: 09/03/02
Dilution Factor: 1

Work Order #....: E7VGP1AA
Prep Date.....: 09/03/02
Prep Batch #:....: 2249483
Analyst ID.....: 356074

Matrix.....: SOLID
Analysis Time...: 16:10
Instrument ID...: G03

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	METHOD
C8-C9	ND	10	mg/kg	SW846 8015B
C10-C11	ND	10	mg/kg	SW846 8015B
C12-C13	ND	10	mg/kg	SW846 8015B
C14-C15	ND	10	mg/kg	SW846 8015B
C16-C17	ND	10	mg/kg	SW846 8015B
C18-C19	ND	10	mg/kg	SW846 8015B
C20-C23	ND	10	mg/kg	SW846 8015B
C24-C27	ND	10	mg/kg	SW846 8015B
C28-C31	ND	10	mg/kg	SW846 8015B
C32-C35	ND	10	mg/kg	SW846 8015B
C36-C39	ND	10	mg/kg	SW846 8015B
C40+	ND	10	mg/kg	SW846 8015B
Total Carbon Chain Range	ND	10	mg/kg	SW846 8015B
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS		
	79	(60 - 130)		

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

000030

METHOD BLANK REPORT

HPLC

Client Lot #....: E2H300298
 MB Lot-Sample #: E2I130000-490
 Analysis Date...: 09/10/02
 Dilution Factor: 1

Work Order #....: E78RC1AA
 Prep Date.....: 09/10/02
 Prep Batch #: 2256490
 Analyst ID.....: 000024

Matrix.....: SOLID
 Analysis Time...: 00:00
 Instrument ID.: N/A

<u>PARAMETER</u>	<u>REPORTING</u>			
	<u>RESULT</u>	<u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>
Acenaphthene	ND	50	ug/kg	SW846 8310
Acenaphthylene	ND	200	ug/kg	SW846 8310
Anthracene	ND	2.0	ug/kg	SW846 8310
Benzo(a)anthracene	ND	2.0	ug/kg	SW846 8310
Benzo(b)fluoranthene	ND	5.0	ug/kg	SW846 8310
Benzo(k)fluoranthene	ND	2.0	ug/kg	SW846 8310
Benzo(ghi)perylene	ND	5.0	ug/kg	SW846 8310
Benzo(a)pyrene	ND	2.0	ug/kg	SW846 8310
Chrysene	ND	5.0	ug/kg	SW846 8310
Dibenz(a,h)anthracene	ND	5.0	ug/kg	SW846 8310
Fluoranthene	ND	5.0	ug/kg	SW846 8310
Fluorene	ND	5.0	ug/kg	SW846 8310
Indeno(1,2,3-cd)pyrene	ND	5.0	ug/kg	SW846 8310
Naphthalene	ND	40	ug/kg	SW846 8310
Phenanthrene	ND	5.0	ug/kg	SW846 8310
Pyrene	ND	5.0	ug/kg	SW846 8310

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

000031

METHOD BLANK REPORT

TOTAL Metals

Client Lot #....: E2H300298

Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: E2I030000-283 Prep Batch #....: 2246283						
Aluminum	ND	20.0	mg/kg	SW846 6010B	09/03/02	E7LHN1AA
		Dilution Factor: 1				
		Analysis Time...: 17:41		Analyst ID.....: 021088		Instrument ID...: M01
Arsenic	ND	1.0	mg/kg	SW846 6010B	09/03/02	E7LHN1AC
		Dilution Factor: 1				
		Analysis Time...: 17:41		Analyst ID.....: 021088		Instrument ID...: M01
Antimony	ND	6.0	mg/kg	SW846 6010B	09/03/02	E7LHN1AD
		Dilution Factor: 1				
		Analysis Time...: 17:41		Analyst ID.....: 021088		Instrument ID...: M01
Barium	ND	2.0	mg/kg	SW846 6010B	09/03/02	E7LHN1AE
		Dilution Factor: 1				
		Analysis Time...: 17:41		Analyst ID.....: 021088		Instrument ID...: M01
Cadmium	ND	0.50	mg/kg	SW846 6010B	09/03/02	E7LHN1AF
		Dilution Factor: 1				
		Analysis Time...: 17:41		Analyst ID.....: 021088		Instrument ID...: M01
Chromium	ND	1.0	mg/kg	SW846 6010B	09/03/02	E7LHN1AG
		Dilution Factor: 1				
		Analysis Time...: 17:41		Analyst ID.....: 021088		Instrument ID...: M01
Beryllium	ND	0.50	mg/kg	SW846 6010B	09/03/02	E7LHN1AH
		Dilution Factor: 1				
		Analysis Time...: 17:41		Analyst ID.....: 021088		Instrument ID...: M01
Lead	ND	0.50	mg/kg	SW846 6010B	09/03/02	E7LHN1AJ
		Dilution Factor: 1				
		Analysis Time...: 17:41		Analyst ID.....: 021088		Instrument ID...: M01
Selenium	ND	0.50	mg/kg	SW846 6010B	09/03/02	E7LHN1AK
		Dilution Factor: 1				
		Analysis Time...: 17:41		Analyst ID.....: 021088		Instrument ID...: M01
Silver	ND	1.0	mg/kg	SW846 6010B	09/03/02	E7LHN1AL
		Dilution Factor: 1				
		Analysis Time...: 17:41		Analyst ID.....: 021088		Instrument ID...: M01
Cobalt	ND	5.0	mg/kg	SW846 6010B	09/03/02	E7LHN1AM
		Dilution Factor: 1				
		Analysis Time...: 17:41		Analyst ID.....: 021088		Instrument ID...: M01

(Continued on next page)

000032

METHOD BLANK REPORT

TOTAL Metals

Client Lot #....: E2H300298

Matrix.....: SOLID

PARAMETER	RESULT	REPORTING			METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
		LIMIT	UNITS				
Copper	ND	2.5	mg/kg		SW846 6010B	09/03/02	E7LHN1AN
		Dilution Factor: 1					
		Analysis Time...: 17:41			Analyst ID.....: 021088	Instrument ID...: M01	
Molybdenum	ND	4.0	mg/kg		SW846 6010B	09/03/02	E7LHN1AP
		Dilution Factor: 1					
		Analysis Time...: 17:41			Analyst ID.....: 021088	Instrument ID...: M01	
Nickel	ND	4.0	mg/kg		SW846 6010B	09/03/02	E7LHN1AQ
		Dilution Factor: 1					
		Analysis Time...: 17:41			Analyst ID.....: 021088	Instrument ID...: M01	
Thallium	ND	1.0	mg/kg		SW846 6010B	09/03/02	E7LHN1AR
		Dilution Factor: 1					
		Analysis Time...: 17:41			Analyst ID.....: 021088	Instrument ID...: M01	
Vanadium	ND	5.0	mg/kg		SW846 6010B	09/03/02	E7LHN1AT
		Dilution Factor: 1					
		Analysis Time...: 17:41			Analyst ID.....: 021088	Instrument ID...: M01	
Zinc	ND	2.0	mg/kg		SW846 6010B	09/03/02	E7LHN1AU
		Dilution Factor: 1					
		Analysis Time...: 17:41			Analyst ID.....: 021088	Instrument ID...: M01	

MB Lot-Sample #: E2I030000-288 Prep Batch #....: 2246288

Mercury	ND	0.10	mg/kg	SW846 7471A	09/03/02	E7LHW1AA
		Dilution Factor: 1				
		Analysis Time...: 15:28		Analyst ID.....: 000023	Instrument ID...: M04	

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

000033

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #....: E2H300298 Work Order #....: E7P9E1AC Matrix.....: SOLID
 LCS Lot-Sample#: E2I050000-286
 Prep Date.....: 09/04/02 Analysis Date...: 09/04/02
 Prep Batch #....: 2248286 Analysis Time...: 13:35
 Dilution Factor: 1 Instrument ID...: MSD
 Analyst ID.....: 064667

<u>PARAMETER</u>	<u>PERCENT</u>	<u>RECOVERY</u>	<u>METHOD</u>
	<u>RECOVERY</u>	<u>LIMITS</u>	
1,1-Dichloroethene	108	(65 - 150)	SW846 8260B
Benzene	103	(70 - 130)	SW846 8260B
Trichloroethene	99	(70 - 135)	SW846 8260B
Toluene	100	(70 - 130)	SW846 8260B
Chlorobenzene	96	(70 - 130)	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Bromofluorobenzene	101	(65 - 135)
1,2-Dichloroethane-d4	106	(60 - 140)
Toluene-d8	99	(70 - 130)

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

000034

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #....: E2H300298 Work Order #....: E7P9E1AC Matrix.....: SOLID
 LCS Lot-Sample#: E2I050000-286
 Prep Date.....: 09/04/02 Analysis Date...: 09/04/02
 Prep Batch #....: 2248286 Analysis Time...: 13:35
 Dilution Factor: 1 Instrument ID...: MSD
 Analyst ID.....: 064667

<u>PARAMETER</u>	SPIKE <u>AMOUNT</u>	MEASURED <u>AMOUNT</u>	UNITS	PERCENT <u>RECOVERY</u>	METHOD
1,1-Dichloroethene	50.0	54.2	ug/kg	108	SW846 8260B
Benzene	50.0	51.3	ug/kg	103	SW846 8260B
Trichloroethene	50.0	49.6	ug/kg	99	SW846 8260B
Toluene	50.0	49.8	ug/kg	100	SW846 8260B
Chlorobenzene	50.0	47.8	ug/kg	96	SW846 8260B

<u>SURROGATE</u>	PERCENT <u>RECOVERY</u>	RECOVERY <u>LIMITS</u>
Bromofluorobenzene	101	(65 - 135)
1,2-Dichloroethane-d4	106	(60 - 140)
Toluene-d8	99	(70 - 130)

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

000035

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #....: E2H300298 Work Order #....: E7LK71AC Matrix.....: SOLID
LCS Lot-Sample#: E2I030000-312
Prep Date.....: 08/31/02 Analysis Date...: 08/31/02
Prep Batch #:....: 2246312 Analysis Time..: 10:14
Dilution Factor: 1 Instrument ID...: G13
Analyst ID.....: 001464

<u>PARAMETER</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>	<u>METHOD</u>
TPH (as Gasoline)	92	(70 - 140)	SW846 8015B
<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>	
a,a,a-Trifluorotoluene (TFT)	116	(60 - 130)	

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

000036

LABORATORY CONTROL SAMPLE DATA REPORT

GC Volatiles

Client Lot #....: E2H300298 Work Order #....: E7LK71AC Matrix.....: SOLID
 LCS Lot-Sample#: E2I030000-312
 Prep Date.....: 08/31/02 Analysis Date...: 08/31/02
 Prep Batch #....: 2246312 Analysis Time...: 10:14
 Dilution Factor: 1 Instrument ID...: G13
 Analyst ID.....: 001464

<u>PARAMETER</u>	<u>SPIKE</u> <u>AMOUNT</u>	<u>MEASURED</u> <u>AMOUNT</u>	<u>UNITS</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>METHOD</u>
TPH (as Gasoline)	5.00	4.58	mg/kg	92	SW846 8015B
<u>SURROGATE</u>		PERCENT RECOVERY		RECOVERY LIMITS	
a,a,a-Trifluorotoluene (TFT)		116		(60 - 130)	

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

000037

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #....: E2H300298 Work Order #....: E7VGP1AC Matrix.....: SOLID
LCS Lot-Sample#: E2I060000-483
Prep Date.....: 09/03/02 Analysis Date...: 09/03/02
Prep Batch #:....: 2249483 Analysis Time...: 16:50
Dilution Factor: 1 Instrument ID...: G03
Analyst ID.....: 356074

PARAMETER	PERCENT	RECOVERY	METHOD
	RECOVERY	LIMITS	
TPH (as Diesel)	90	(55 - 130)	SW846 8015B
SURROGATE	PERCENT	RECOVERY	
Benzo (a) pyrene	RECOVERY	LIMITS	
	100	(60 - 130)	

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

000038

LABORATORY CONTROL SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #....: E2H300298 **Work Order #....:** E7VGP1AC **Matrix.....:** SOLID
LCS Lot-Sample#: E2I060000-483
Prep Date.....: 09/03/02 **Analysis Date...:** 09/03/02
Prep Batch #....: 2249483 **Analysis Time...:** 16:50
Dilution Factor: 1 **Instrument ID...:** G03
Analyst ID.....: 356074

<u>PARAMETER</u>	<u>SPIKE</u> <u>AMOUNT</u>	<u>MEASURED</u> <u>AMOUNT</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>METHOD</u>
TPH (as Diesel)	250	225	90	SW846 8015B
SURROGATE		<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>	
Benzo (a) pyrene		100	(60 - 130)	

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

000039

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #....: E2H300298

Matrix.....: SOLID

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>	<u>PREPARATION-ANALYSIS DATE</u>	<u>WORK ORDER #</u>
LCS Lot-Sample#: E2I030000-283 Prep Batch #....: 2246283					
Aluminum	99	(70 - 115)	SW846 6010B	09/03/02	E7LHN1AV
		Dilution Factor: 1		Analysis Time...: 17:46	Analyst ID.....: 021088
		Instrument ID...: M01			
Arsenic	103	(75 - 115)	SW846 6010B	09/03/02	E7LHN1AW
		Dilution Factor: 1		Analysis Time...: 17:46	Analyst ID.....: 021088
		Instrument ID...: M01			
Antimony	99	(75 - 115)	SW846 6010B	09/03/02	E7LHN1AX
		Dilution Factor: 1		Analysis Time...: 17:46	Analyst ID.....: 021088
		Instrument ID...: M01			
Barium	99	(80 - 120)	SW846 6010B	09/03/02	E7LHN1A0
		Dilution Factor: 1		Analysis Time...: 17:46	Analyst ID.....: 021088
		Instrument ID...: M01			
Cadmium	97	(80 - 120)	SW846 6010B	09/03/02	E7LHN1A1
		Dilution Factor: 1		Analysis Time...: 17:46	Analyst ID.....: 021088
		Instrument ID...: M01			
Chromium	98	(85 - 120)	SW846 6010B	09/03/02	E7LHN1A2
		Dilution Factor: 1		Analysis Time...: 17:46	Analyst ID.....: 021088
		Instrument ID...: M01			
Beryllium	102	(80 - 120)	SW846 6010B	09/03/02	E7LHN1A3
		Dilution Factor: 1		Analysis Time...: 17:46	Analyst ID.....: 021088
		Instrument ID...: M01			
Lead	100	(80 - 120)	SW846 6010B	09/03/02	E7LHN1A4
		Dilution Factor: 1		Analysis Time...: 17:46	Analyst ID.....: 021088
		Instrument ID...: M01			
Selenium	97	(70 - 115)	SW846 6010B	09/03/02	E7LHN1A5
		Dilution Factor: 1		Analysis Time...: 17:46	Analyst ID.....: 021088
		Instrument ID...: M01			
Silver	101	(80 - 120)	SW846 6010B	09/03/02	E7LHN1A6
		Dilution Factor: 1		Analysis Time...: 17:46	Analyst ID.....: 021088
		Instrument ID...: M01			

. (Continued on next page)

000040

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #....: E2H300298

Matrix.....: SOLID

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>	<u>PREPARATION-</u>	<u>ANALYSIS DATE</u>	<u>WORK ORDER #</u>
Cobalt	98	(80 - 120)	SW846 6010B		09/03/02	E7LHN1A7
		Dilution Factor: 1		Analysis Time...: 17:46		Analyst ID.....: 021088
		Instrument ID...: M01				
Copper	101	(80 - 120)	SW846 6010B		09/03/02	E7LHN1A8
		Dilution Factor: 1		Analysis Time...: 17:46		Analyst ID.....: 021088
		Instrument ID...: M01				
Molybdenum	100	(80 - 120)	SW846 6010B		09/03/02	E7LHN1A9
		Dilution Factor: 1		Analysis Time...: 17:46		Analyst ID.....: 021088
		Instrument ID...: M01				
Nickel	96	(80 - 120)	SW846 6010B		09/03/02	E7LHN1CA
		Dilution Factor: 1		Analysis Time...: 17:46		Analyst ID.....: 021088
		Instrument ID...: M01				
Thallium	100	(75 - 125)	SW846 6010B		09/03/02	E7LHN1CC
		Dilution Factor: 1		Analysis Time...: 17:46		Analyst ID.....: 021088
		Instrument ID...: M01				
Vanadium	100	(80 - 120)	SW846 6010B		09/03/02	E7LHN1CD
		Dilution Factor: 1		Analysis Time...: 17:46		Analyst ID.....: 021088
		Instrument ID...: M01				
Zinc	104	(80 - 120)	SW846 6010B		09/03/02	E7LHN1CE
		Dilution Factor: 1		Analysis Time...: 17:46		Analyst ID.....: 021088
		Instrument ID...: M01				
LCS Lot-Sample#:	E2I030000-288	Prep Batch #....:	2246288			
Mercury	102	(85 - 115)	SW846 7471A		09/03/02	E7LHW1AC
		Dilution Factor: 1		Analysis Time...: 15:30		Analyst ID.....: 000023
		Instrument ID...: M04				

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

000041

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #....: E2H300298

Matrix.....: SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	PREPARATION- ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: E2I030000-283 Prep Batch #....: 2246283						
Aluminum	200	198	mg/kg	99	SW846 6010B Analysis Time...: 17:46	09/03/02 Analyst ID.....: 021088
			Dilution Factor: 1			
			Instrument ID...: M01			
Arsenic	200	207	mg/kg	103	SW846 6010B Analysis Time...: 17:46	09/03/02 Analyst ID.....: 021088
			Dilution Factor: 1			
			Instrument ID...: M01			
Antimony	50.0	49.4	mg/kg	99	SW846 6010B Analysis Time...: 17:46	09/03/02 Analyst ID.....: 021088
			Dilution Factor: 1			
			Instrument ID...: M01			
Barium	200	198	mg/kg	99	SW846 6010B Analysis Time...: 17:46	09/03/02 Analyst ID.....: 021088
			Dilution Factor: 1			
			Instrument ID...: M01			
Cadmium	5.00	4.85	mg/kg	97	SW846 6010B Analysis Time...: 17:46	09/03/02 Analyst ID.....: 021088
			Dilution Factor: 1			
			Instrument ID...: M01			
Chromium	20.0	19.6	mg/kg	98	SW846 6010B Analysis Time...: 17:46	09/03/02 Analyst ID.....: 021088
			Dilution Factor: 1			
			Instrument ID...: M01			
Beryllium	5.00	5.12	mg/kg	102	SW846 6010B Analysis Time...: 17:46	09/03/02 Analyst ID.....: 021088
			Dilution Factor: 1			
			Instrument ID...: M01			
Lead	50.0	50.2	mg/kg	100	SW846 6010B Analysis Time...: 17:46	09/03/02 Analyst ID.....: 021088
			Dilution Factor: 1			
			Instrument ID...: M01			
Selenium	200	194	mg/kg	97	SW846 6010B Analysis Time...: 17:46	09/03/02 Analyst ID.....: 021088
			Dilution Factor: 1			
			Instrument ID...: M01			
Silver	5.00	5.05	mg/kg	101	SW846 6010B Analysis Time...: 17.46	09/03/02 Analyst ID.....: 021088
			Dilution Factor: 1			
			Instrument ID...: M01			

(Continued on next page)

000042

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: E2H300298

Matrix.....: SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	PREPARATION- ANALYSIS DATE	WORK ORDER #
Cobalt	50.0	49.1	mg/kg	98	SW846 6010B Analysis Time...: 17:46	09/03/02 Analyst ID.....: 021088
				Dilution Factor: 1 Instrument ID...: M01		
Copper	25.0	25.2	mg/kg	101	SW846 6010B Analysis Time...: 17:46	09/03/02 Analyst ID.....: 021088
				Dilution Factor: 1 Instrument ID...: M01		
Molybdenum	100	99.6	mg/kg	100	SW846 6010B Analysis Time...: 17:46	09/03/02 Analyst ID.....: 021088
				Dilution Factor: 1 Instrument ID...: M01		
Nickel	50.0	47.9	mg/kg	96	SW846 6010B Analysis Time...: 17:46	09/03/02 Analyst ID.....: 021088
				Dilution Factor: 1 Instrument ID...: M01		
Thallium	200	201	mg/kg	100	SW846 6010B Analysis Time...: 17:46	09/03/02 Analyst ID.....: 021088
				Dilution Factor: 1 Instrument ID...: M01		
Vanadium	50.0	50.0	mg/kg	100	SW846 6010B Analysis Time...: 17:46	09/03/02 Analyst ID.....: 021088
				Dilution Factor: 1 Instrument ID...: M01		
Zinc	50.0	52.0	mg/kg	104	SW846 6010B Analysis Time...: 17:46	09/03/02 Analyst ID.....: 021088
				Dilution Factor: 1 Instrument ID...: M01		
LCS Lot-Sample#:	E2I030000-288	Prep Batch #...:	2246288			
Mercury	0.833	0.847	mg/kg	102	SW846 7471A Analysis Time...: 15:30	09/03/02 Analyst ID.....: 000023
				Dilution Factor: 1 Instrument ID...: M04		

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

000043

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #....: E2H300298 Work Order #....: E7JQG1DA-MS Matrix.....: SOLID
 MS Lot-Sample #: E2H300298-001 E7JQG1DC-MSD
 Date Sampled....: 08/30/02 14:00 Date Received...: 08/30/02 15:20 MS Run #.....: 2249230
 Prep Date.....: 09/04/02 Analysis Date...: 09/04/02
 Prep Batch #....: 2248286 Analysis Time...: 16:41
 Dilution Factor: 1 Analyst ID.....: 064667 Instrument ID...: MSD

<u>PARAMETER</u>	<u>PERCENT</u>	<u>RECOVERY</u>	<u>RPD</u>	<u>LIMITS</u>	<u>METHOD</u>
1,1-Dichloroethene	95	(65 - 150)			SW846 8260B
	102	(65 - 150)	7.5	(0-30)	SW846 8260B
Benzene	96	(70 - 130)			SW846 8260B
	102	(70 - 130)	7.0	(0-30)	SW846 8260B
Trichloroethene	95	(70 - 135)			SW846 8260B
	99	(70 - 135)	3.7	(0-30)	SW846 8260B
Toluene	88	(70 - 130)			SW846 8260B
	96	(70 - 130)	8.1	(0-30)	SW846 8260B
Chlorobenzene	83	(70 - 130)			SW846 8260B
	92	(70 - 130)	10	(0-30)	SW846 8260B
<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>		<u>RECOVERY</u>	
Bromofluorobenzene	99			(65 - 135)	
	105			(65 - 135)	
1,2-Dichloroethane-d4	112			(60 - 140)	
	105			(60 - 140)	
Toluene-d8	102			(70 - 130)	
	100			(70 - 130)	

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

000044

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #....: E2H300298 Work Order #....: E7JQG1DA-MS Matrix.....: SOLID
 MS Lot-Sample #: E2H300298-001 E7JQG1DC-MSD
 Date Sampled....: 08/30/02 14:00 Date Received...: 08/30/02 15:20 MS Run #.....: 2249230
 Prep Date.....: 09/04/02 Analysis Date...: 09/04/02
 Prep Batch #....: 2248286 Analysis Time...: 16:41
 Dilution Factor: 1 Analyst ID.....: 064667 Instrument ID...: MSD

PARAMETER	SAMPLE	SPIKE	MEASRD	PERCNT			METHOD
	AMOUNT	AMT	AMOUNT	UNITS	RECVRY	RPD	
1,1-Dichloroethene	ND	50.0	47.3	ug/kg	95		SW846 8260B
	ND	50.0	51.0	ug/kg	102	7.5	SW846 8260B
Benzene	ND	50.0	47.8	ug/kg	96		SW846 8260B
	ND	50.0	51.2	ug/kg	102	7.0	SW846 8260B
Trichloroethene	ND	50.0	47.7	ug/kg	95		SW846 8260B
	ND	50.0	49.5	ug/kg	99	3.7	SW846 8260B
Toluene	ND	50.0	44.1	ug/kg	88		SW846 8260B
	ND	50.0	47.9	ug/kg	96	8.1	SW846 8260B
Chlorobenzene	ND	50.0	41.5	ug/kg	83		SW846 8260B
	ND	50.0	46.0	ug/kg	92	10	SW846 8260B

SURROGATE	PERCENT	RECOVERY	RECOVERY
	RECOVERY	LIMITS	LIMITS
Bromofluorobenzene	99	(65 - 135)	
	105	(65 - 135)	
1,2-Dichloroethane-d4	112	(60 - 140)	
	105	(60 - 140)	
Toluene-d8	102	(70 - 130)	
	100	(70 - 130)	

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

000045

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Volatiles

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>
TPH (as Gasoline)	74	(70 - 140)			SW846 8015B
	78	(70 - 140)	5.0	(0-40)	SW846 8015B
<u>SURROGATE</u>		<u>PERCENT RECOVERY</u>		<u>RECOVERY LIMITS</u>	
a,a,a-Trifluorotoluene (TFT)		101		(60 - 130)	
		103		(60 - 130)	

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

000046

MATRIX SPIKE SAMPLE DATA REPORT

GC Volatiles

Client Lot #....: E2H300298 Work Order #....: E7JQG1DD-MS Matrix.....: SOLID
 MS Lot-Sample #: E2H300298-001 E7JQG1DE-MSD
 Date Sampled....: 08/30/02 14:00 Date Received...: 08/30/02 15:20 MS Run #.....: 2252201
 Prep Date.....: 08/31/02 Analysis Date...: 08/31/02
 Prep Batch #....: 2246312 Analysis Time...: 11:38
 Dilution Factor: 1 Analyst ID.....: 001464 Instrument ID...: G13

<u>PARAMETER</u>	<u>SAMPLE</u>	<u>SPIKE</u>	<u>MEASRD</u>	<u>PERCNT</u>			
	<u>AMOUNT</u>	<u>AMT</u>	<u>AMOUNT</u>	<u>UNITS</u>	<u>RECVRY</u>	<u>RPD</u>	<u>METHOD</u>
TPH (as Gasoline)	ND	5.00	3.70	mg/kg	74		SW846 8015B
	ND	5.00	3.90	mg/kg	78	5.0	SW846 8015B
<u>SURROGATE</u>			<u>PERCENT</u>			<u>RECOVERY</u>	
a,a,a-Trifluorotoluene (TFT)			<u>RECOVERY</u>			<u>LIMITS</u>	
			101			(60 - 130)	
			103			(60 - 130)	

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

000047

BOE-C6-0007430

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #....: E2H300298 Work Order #....: E7JQG1C8-MS Matrix.....: SOLID
MS Lot-Sample #: E2H300298-001 E7JQG1C9-MSD
Date Sampled...: 08/30/02 14:00 Date Received..: 08/30/02 15:20 MS Run #.....: 2249231
Prep Date.....: 09/03/02 Analysis Date..: 09/03/02
Prep Batch #...: 2249483 Analysis Time..: 18:09
Dilution Factor: 1 Analyst ID.....: 356074 Instrument ID.: G03

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>
'TPH (as Diesel)	67	(55 - 130)			SW846 8015B
	74	(55 - 130)	9.5	(0-35)	SW846 8015B
<u>SURROGATE</u>		<u>PERCENT RECOVERY</u>		<u>RECOVERY LIMITS</u>	
Benzo(a)pyrene		72		(60 - 130)	
		79		(60 - 130)	

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Fold print denotes control parameters

000048

MATRIX SPIKE SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: E2H300298 Work Order #...: E7JQG1C8-MS Matrix.....: SOLID
MS Lot-Sample #: E2H300298-001 E7JQG1C9-MSD
 Date Sampled....: 08/30/02 14:00 Date Received...: 08/30/02 15:20 MS Run #.....: 2249231
 Prep Date.....: 09/03/02 Analysis Date...: 09/03/02
 Prep Batch #...: 2249483 Analysis Time...: 18:09
 Dilution Factor: 1 Analyst ID.....: 356074 Instrument ID...: G03

PARAMETER	SAMPLE	SPIKE	MEASRD	PERCNT			METHOD
	<u>AMOUNT</u>	<u>AMT</u>	<u>AMOUNT</u>	<u>UNITS</u>	<u>RECVRY</u>	<u>RPD</u>	
TPH (as Diesel)	ND	250	168	mg/kg	67		SW846 8015B
	ND	250	185	mg/kg	74	9.5	SW846 8015B

SURROGATE	PERCENT		RECOVERY	
	<u>RECOVERY</u>		<u>LIMITS</u>	
Benzo (a) pyrene	72		(60 - 130)	
	79		(60 - 130)	

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

000049

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #....: E2H300298						Matrix.....: SOLID
Date Sampled...: 08/30/02 14:00 Date Received..: 08/30/02 15:20						
PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	PREPARATION- ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: E2H300298-001 Prep Batch #: 2246283						
Aluminum	NC	(70 - 115)		SW846 6010B	09/03/02	E7JQG1A2
	NC	(70 - 115)	(0-25)	SW846 6010B	09/03/02	E7JQG1A3
		Dilution Factor: 1				
		Analysis Time...: 18:07		Instrument ID...: M01		Analyst ID.....: 021088
		MS Run #.....: 2249227				
Arsenic	101	(75 - 115)		SW846 6010B	09/03/02	E7JQG1A4
	98	(75 - 115) 3.0	(0-25)	SW846 6010B	09/03/02	E7JQG1A5
		Dilution Factor: 1				
		Analysis Time...: 18:07		Instrument ID...: M01		Analyst ID.....: 021088
		MS Run #.....: 2249227				
Antimony	24 N	(75 - 115)		SW846 6010B	09/03/02	E7JQG1A6
	23 N	(75 - 115) 3.6	(0-25)	SW846 6010B	09/03/02	E7JQG1A7
		Dilution Factor: 1				
		Analysis Time...: 18:07		Instrument ID...: M01		Analyst ID.....: 021088
		MS Run #.....: 2249227				
Barium	90	(80 - 120)		SW846 6010B	09/03/02	E7JQG1A8
	85	(80 - 120) 2.6	(0-25)	SW846 6010B	09/03/02	E7JQG1A9
		Dilution Factor: 1				
		Analysis Time...: 18:07		Instrument ID...: M01		Analyst ID.....: 021088
		MS Run #.....: 2249227				
Cadmium	76 N	(80 - 120)		SW846 6010B	09/03/02	E7JQG1CA
	73 N	(80 - 120) 3.7	(0-25)	SW846 6010B	09/03/02	E7JQG1CC
		Dilution Factor: 1				
		Analysis Time...: 18:07		Instrument ID...: M01		Analyst ID.....: 021088
		MS Run #.....: 2249227				
Chromium	85	(85 - 120)		SW846 6010B	09/03/02	E7JQG1CD
	78 N	(85 - 120) 3.5	(0-25)	SW846 6010B	09/03/02	E7JQG1CE
		Dilution Factor: 1				
		Analysis Time...: 18:07		Instrument ID...: M01		Analyst ID.....: 021088
		MS Run #.....: 2249227				
Beryllium	96	(80 - 120)		SW846 6010B	09/03/02	E7JQG1CF
	93	(80 - 120) 2.8	(0-25)	SW846 6010B	09/03/02	E7JQG1CG
		Dilution Factor: 1				
		Analysis Time...: 18:07		Instrument ID...: M01		Analyst ID.....: 021088
		MS Run #.....: 2249227				

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000050

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #....: E2H300298

Matrix.....: SOLID

Date Sampled...: 08/30/02 14:00 Date Received...: 08/30/02 15:20

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>	<u>PREPARATION-ANALYSIS DATE</u>	<u>WORK ORDER #</u>
Lead	95	(80 - 120)			SW846 6010B	09/03/02	E7JQG1CH
	92	(80 - 120) 2.6	(0-25)		SW846 6010B	09/03/02	E7JQG1CJ
		Dilution Factor: 1					
		Analysis Time...: 18:07			Instrument ID...: M01		Analyst ID.....: 021088
		MS Run #.....: 2249227					
Selenium	96	(70 - 115)			SW846 6010B	09/03/02	E7JQG1CK
	93	(70 - 115) 3.1	(0-25)		SW846 6010B	09/03/02	E7JQG1CL
		Dilution Factor: 1					
		Analysis Time...: 18:07			Instrument ID...: M01		Analyst ID.....: 021088
		MS Run #.....: 2249227					
Silver	98	(80 - 120)			SW846 6010B	09/03/02	E7JQG1CM
	95	(80 - 120) 2.8	(0-25)		SW846 6010B	09/03/02	E7JQG1CN
		Dilution Factor: 1					
		Analysis Time...: 18:07			Instrument ID...: M01		Analyst ID.....: 021088
		MS Run #.....: 2249227					
Cobalt	90	(80 - 120)			SW846 6010B	09/03/02	E7JQG1CP
	88	(80 - 120) 2.0	(0-25)		SW846 6010B	09/03/02	E7JQG1CQ
		Dilution Factor: 1					
		Analysis Time...: 18:07			Instrument ID...: M01		Analyst ID.....: 021088
		MS Run #.....: 2249227					
Copper	93	(80 - 120)			SW846 6010B	09/03/02	E7JQG1CR
	86	(80 - 120) 3.1	(0-25)		SW846 6010B	09/03/02	E7JQG1CT
		Dilution Factor: 1					
		Analysis Time...: 18:07			Instrument ID...: M01		Analyst ID.....: 021088
		MS Run #.....: 2249227					
Molybdenum	92	(80 - 120)			SW846 6010B	09/03/02	E7JQG1CU
	90	(80 - 120) 2.2	(0-25)		SW846 6010B	09/03/02	E7JQG1CV
		Dilution Factor: 1					
		Analysis Time...: 18:07			Instrument ID...: M01		Analyst ID.....: 021088
		MS Run #.....: 2249227					
Nickel	85	(80 - 120)			SW846 6010B	09/03/02	E7JQG1CW
	82	(80 - 120) 2.4	(0-25)		SW846 6010B	09/03/02	E7JQG1CX
		Dilution Factor: 1					
		Analysis Time...: 18:07			Instrument ID...: M01		Analyst ID.....: 021088
		MS Run #.....: 2249227					

(Continued on next page)

000051

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #....: E2H300298

Matrix.....: SOLID

Date Sampled....: 08/30/02 14:00 **Date Received...:** 08/30/02 15:20

<u>PARAMETER</u>	<u>PERCENT</u>	<u>RECOVERY</u>	<u>RPD</u>	<u>METHOD</u>	<u>PREPARATION-</u>	<u>WORK</u>
	<u>RECOVERY</u>	<u>LIMITS</u>	<u>RPD</u>		<u>ANALYSIS DATE</u>	<u>ORDER #</u>
Thallium	97	(75 - 125)		SW846 6010B	09/03/02	E7JQG1C0
	94	(75 - 125)	3.1 (0-25)	SW846 6010B	09/03/02	E7JQG1C1
			Dilution Factor: 1			
			Analysis Time...: 18:07	Instrument ID...: M01		Analyst ID.....: 021088
Vanadium	87	(80 - 120)		SW846 6010B	09/03/02	E7JQG1C2
	83	(80 - 120)	2.0 (0-25)	SW846 6010B	09/03/02	E7JQG1C3
			Dilution Factor: 1			
			Analysis Time...: 18:07	Instrument ID...: M01		Analyst ID.....: 021088
Zinc	89	(80 - 120)		SW846 6010B	09/03/02	E7JQG1C4
	89	(80 - 120)	0.04 (0-25)	SW846 6010B	09/03/02	E7JQG1C5
			Dilution Factor: 1			
			Analysis Time...: 18:07	Instrument ID...: M01		Analyst ID.....: 021088
MS Lot-Sample #: E2H300298-001 Prep Batch #....: 2246288						
Mercury	114	(80 - 120)		SW846 7471A	09/03/02	E7JQG1C6
	109	(80 - 120)	3.8 (0-20)	SW846 7471A	09/03/02	E7JQG1C7
			Dilution Factor: 1			
			Analysis Time...: 15:33	Instrument ID...: M04		Analyst ID.....: 021088
MS Run #....: 2249228						

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

NC The recovery and/or RPD were not calculated.

N Spiked analyte recovery is outside stated control limits.

000052

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #....: E2H300298

Matrix.....: SOLID

Date Sampled....: 08/30/02 14:00 **Date Received..:** 08/30/02 15:20

<u>SAMPLE PARAMETER</u>	<u>SPIKE AMOUNT</u>	<u>MEASRD AMOUNT</u>	<u>UNITS</u>	<u>PERCNT RECVRY</u>	<u>RFD</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
MS Lot-Sample #: E2H300298-001 Prep Batch #....: 2246283								
Aluminum								
19100	200	18200	mg/kg			SW846 6010B	09/03/02	E7JQG1A2
		Qualifiers: NC						
19100	200	17700	mg/kg			SW846 6010B	09/03/02	E7JQG1A3
		Qualifiers: NC						
		Dilution Factor: 1						
		Analysis Time...: 18:07				Instrument ID...: M01		
		MS Run #.....: 2249227					Analyst ID.....: 021088	
Arsenic								
6.3	200	208	mg/kg	101		SW846 6010B	09/03/02	E7JQG1A4
6.3	200	202	mg/kg	98	3.0	SW846 6010B	09/03/02	E7JQG1A5
		Dilution Factor: 1						
		Analysis Time...: 18:07				Instrument ID...: M01		
		MS Run #.....: 2249227					Analyst ID.....: 021088	
Antimony								
ND	50.0	12.2 N	mg/kg	24		SW846 6010B	09/03/02	E7JQG1A6
ND	50.0	11.7 N	mg/kg	23	3.6	SW846 6010B	09/03/02	E7JQG1A7
		Dilution Factor: 1						
		Analysis Time...: 18:07				Instrument ID...: M01		
		MS Run #.....: 2249227					Analyst ID.....: 021088	
Barium								
170	200	350	mg/kg	90		SW846 6010B	09/03/02	E7JQG1A8
170	200	341	mg/kg	85	2.6	SW846 6010B	09/03/02	E7JQG1A9
		Dilution Factor: 1						
		Analysis Time...: 18:07				Instrument ID...: M01		
		MS Run #.....: 2249227					Analyst ID.....: 021088	
Cadmium								
ND	5.00	3.78 N	mg/kg	76		SW846 6010B	09/03/02	E7JQG1CA
ND	5.00	3.64 N	mg/kg	73	3.7	SW846 6010B	09/03/02	E7JQG1CC
		Dilution Factor: 1						
		Analysis Time...: 18:07				Instrument ID...: M01		
		MS Run #.....: 2249227					Analyst ID.....: 021088	
Chromium								
26.3	20.0	43.4	mg/kg	85		SW846 6010B	09/03/02	E7JQG1CD
26.3	20.0	41.9 N	mg/kg	78	3.5	SW846 6010B	09/03/02	E7JQG1CE
		Dilution Factor: 1						
		Analysis Time...: 18:07				Instrument ID...: M01		
		MS Run #.....: 2249227					Analyst ID.....: 021088	

(Continued on next page)

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MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #....: E2H300298

Matrix.....: SOLID

Date Sampled...: 08/30/02 14:00 Date Received...: 08/30/02 15:20

<u>SAMPLE</u>	<u>SPIKE</u>	<u>MEASRD</u>	<u>PERCNT</u>			<u>PREPARATION-</u>	<u>WORK</u>	
<u>PARAMETER</u>	<u>AMOUNT</u>	<u>AMOUNT</u>	<u>UNITS</u>	<u>RECVRY</u>	<u>RPD</u>	<u>METHOD</u>	<u>ANALYSIS DATE</u>	<u>ORDER #</u>
Beryllium								
	0.56	5.00	5.35	mg/kg	96	SW846 6010B	09/03/02	E7JQG1CF
	0.56	5.00	5.20	mg/kg	93	2.8 SW846 6010B	09/03/02	E7JQC1CG
			Dilution Factor:	1				
			Analysis Time...:	18:07		Instrument ID...: M01		Analyst ID....: 021083
			MS Run #....:	2249227				
Lead								
	7.3	50.0	54.6	mg/kg	95	SW846 6010B	09/03/02	E7JQG1CH
	7.3	50.0	53.2	mg/kg	92	2.6 SW846 6010B	09/03/02	E7JQG1CJ
			Dilution Factor:	1				
			Analysis Time...:	18:07		Instrument ID...: M01		Analyst ID....: 021088
			MS Run #....:	2249227				
Selenium								
	0.55	200	193	mg/kg	96	SW846 6010B	09/03/02	E7JQG1CK
	0.55	200	187	mg/kg	93	3.1 SW846 6010B	09/03/02	E7JQG1CL
			Dilution Factor:	1				
			Analysis Time...:	18:07		Instrument ID...: M01		Analyst ID....: 021088
			MS Run #....:	2249227				
Silver								
	ND	5.00	4.91	mg/kg	98	SW846 6010B	09/03/02	E7JQG1CM
	ND	5.00	4.77	mg/kg	95	2.8 SW846 6010B	09/03/02	E7JQG1CN
			Dilution Factor:	1				
			Analysis Time...:	18:07		Instrument ID...: M01		Analyst ID....: 021088
			MS Run #....:	2249227				
Cobalt								
	9.3	50.0	54.4	mg/kg	90	SW846 6010B	09/03/02	E7JQG1CP
	9.3	50.0	53.4	mg/kg	88	2.0 SW846 6010B	09/03/02	E7JQG1CQ
			Dilution Factor:	1				
			Analysis Time...:	18:07		Instrument ID...: M01		Analyst ID....: 021088
			MS Run #....:	2249227				
Copper								
	29.0	25.0	52.2	mg/kg	93	SW846 6010B	09/03/02	E7JQG1CR
	29.0	25.0	50.6	mg/kg	86	3.1 SW846 6010B	09/03/02	E7JQG1CT
			Dilution Factor:	1				
			Analysis Time...:	18:07		Instrument ID...: M01		Analyst ID....: 021088
			MS Run #....:	2249227				

(Continued on next page)

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BOE-C6-0007437

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #....: E2H300298

Matrix.....: SOLID

Date Sampled...: 08/30/02 14:00 Date Received...: 08/30/02 15:20

PARAMETER	SAMPLE	SPIKE	MEASRD	PERCNT			PREPARATION-	WORK	ORDER #									
	AMOUNT	AMT	AMOUNT	UNITS	RECVRY	RPD	METHOD	ANALYSIS DATE										
Molybdenum																		
	1.0	100	93.4	mg/kg	92		SW846 6010B	09/03/02	E7JQG1CU									
	1.0	100	91.3	mg/kg	90	2.2	SW846 6010B	09/03/02	E7JQG1CV									
	Dilution Factor: 1																	
	Analysis Time...: 18:07																	
	Instrument ID...: M01																	
	MS Run #.....: 2249227																	
Nickel																		
	21.1	50.0	63.8	mg/kg	85		SW846 6010B	09/03/02	E7JQG1CW									
	21.1	50.0	62.3	mg/kg	82	2.4	SW846 6010B	09/03/02	E7JQG1CX									
	Dilution Factor: 1																	
	Analysis Time...: 18:07																	
	Instrument ID...: M01																	
	MS Run #.....: 2249227																	
Thallium																		
	ND	200	195	mg/kg	97		SW846 6010B	09/03/02	E7JQG1C0									
	ND	200	189	mg/kg	94	3.1	SW846 6010B	09/03/02	E7JQG1C1									
	Dilution Factor: 1																	
	Analysis Time...: 18:07																	
	Instrument ID...: M01																	
	MS Run #.....: 2249227																	
Vanadium																		
	44.9	50.0	88.2	mg/kg	87		SW846 6010B	09/03/02	E7JQG1C2									
	44.9	50.0	86.5	mg/kg	83	2.0	SW846 6010B	09/03/02	E7JQG1C3									
	Dilution Factor: 1																	
	Analysis Time...: 18:07																	
	Instrument ID...: M01																	
	MS Run #.....: 2249227																	
Zinc																		
	59.2	50.0	104	mg/kg	89		SW846 6010B	09/03/02	E7JQG1C4									
	59.2	50.0	104	mg/kg	89	0.04	SW846 6010B	09/03/02	E7JQG1C5									
	Dilution Factor: 1																	
	Analysis Time...: 18:07																	
	Instrument ID...: M01																	
	MS Run #.....: 2249227																	
MS Lot-Sample #: E2H300298-001 Prep Batch #....: 2246288																		
Mercury																		
	0.033	0.167	0.223	mg/kg	114		SW846 7471A	09/03/02	E7JQG1C6									
	0.033	0.167	0.215	mg/kg	109	3.8	SW846 7471A	09/03/02	E7JQG1C7									
	Dilution Factor: 1																	
	Analysis Time...: 15:33																	
	Instrument ID...: M04																	
	MS Run #.....: 2249228																	

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

NC The recovery and/or RPD were not calculated.

N Spiked analyte recovery is outside stated control limits.

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Subcontract Reports

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BOE-C6-0007439



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LABORATORY REPORT

Prepared For: STL Los Angeles
1721 S. Grand Avenue
Santa Ana, CA 92705

Attention: Diane Suzuki
Project: E2H300298

Sampled: 08/30/02
Received: 08/31/02
Reported: 09/12/02

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AZ DHS License #AZ0062


Del Mar Analytical, Colton
Clifton J. Kiser
PM Supervisor

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BOE-C6-0007440



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 2520 E. Sunset Rd. #3, Las Vegas, NV 89120 (702) 798-3620 FAX (702) 798-3621

STL Los Angeles
 1721 S. Grand Avenue
 Santa Ana, CA 92705
 Attention: Diane Suzuki

Client Project ID: E2H300298

Report Number: CLH0334

Sampled:08/30/02

Received:08/31/02

POLYNUCLEAR AROMATIC HYDROCARBONS (EPA 8310)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
			ug/kg	ug/kg				
Sample ID: CLH0334-01 (WP0001-SS083002-0001 - Soil)								
Acenaphthene	EPA 8310	C2I1015	500	ND	10	9/10/2002	9/10/2002	RL-1
Acenaphthylene	EPA 8310	C2I1015	2000	ND	10	9/10/2002	9/10/2002	
Anthracene	EPA 8310	C2I1015	20	ND	10	9/10/2002	9/10/2002	
Benzo(a)anthracene	EPA 8310	C2I1015	20	ND	10	9/10/2002	9/10/2002	
Benzo(a)pyrene	EPA 8310	C2I1015	20	ND	10	9/10/2002	9/10/2002	
Benzo(b)fluoranthene	EPA 8310	C2I1015	50	ND	10	9/10/2002	9/10/2002	L
Benzo(g,h,i)perylene	EPA 8310	C2I1015	50	11	10	9/10/2002	9/10/2002	J
Benzo(k)fluoranthene	EPA 8310	C2I1015	20	ND	10	9/10/2002	9/10/2002	
Chrysene	EPA 8310	C2I1015	50	ND	10	9/10/2002	9/10/2002	
Dibenz(a,h)anthracene	EPA 8310	C2I1015	50	ND	10	9/10/2002	9/10/2002	
Fluoranthene	EPA 8310	C2I1015	50	ND	10	9/10/2002	9/10/2002	
Fluorene	EPA 8310	C2I1015	50	ND	10	9/10/2002	9/10/2002	
Indeno(1,2,3-cd)pyrene	EPA 8310	C2I1015	50	ND	10	9/10/2002	9/10/2002	
Naphthalene	EPA 8310	C2I1015	400	ND	10	9/10/2002	9/10/2002	
Phenanthrene	EPA 8310	C2I1015	50	ND	10	9/10/2002	9/10/2002	
Pyrene	EPA 8310	C2I1015	50	ND	10	9/10/2002	9/10/2002	
<i>Surrogate: 2-Methylanthracene (35-125%)</i>								
Sample ID: CLH0334-02 (WP0001-SS083002-0002 - Soil)								
Acenaphthene	EPA 8310	C2I1015	500	ND	10	9/10/2002	9/10/2002	RL-1
Acenaphthylene	EPA 8310	C2I1015	2000	ND	10	9/10/2002	9/10/2002	
Anthracene	EPA 8310	C2I1015	20	ND	10	9/10/2002	9/10/2002	
Benzo(a)anthracene	EPA 8310	C2I1015	20	ND	10	9/10/2002	9/10/2002	
Benzo(a)pyrene	EPA 8310	C2I1015	20	ND	10	9/10/2002	9/10/2002	
Benzo(b)fluoranthene	EPA 8310	C2I1015	50	ND	10	9/10/2002	9/10/2002	L
Benzo(g,h,i)perylene	EPA 8310	C2I1015	50	ND	10	9/10/2002	9/10/2002	
Benzo(k)fluoranthene	EPA 8310	C2I1015	20	ND	10	9/10/2002	9/10/2002	
Chrysene	EPA 8310	C2I1015	50	ND	10	9/10/2002	9/10/2002	
Dibenz(a,h)anthracene	EPA 8310	C2I1015	50	ND	10	9/10/2002	9/10/2002	
Fluoranthene	EPA 8310	C2I1015	50	ND	10	9/10/2002	9/10/2002	
Fluorene	EPA 8310	C2I1015	50	ND	10	9/10/2002	9/10/2002	
Indeno(1,2,3-cd)pyrene	EPA 8310	C2I1015	50	ND	10	9/10/2002	9/10/2002	
Naphthalene	EPA 8310	C2I1015	400	ND	10	9/10/2002	9/10/2002	
Phenanthrene	EPA 8310	C2I1015	50	ND	10	9/10/2002	9/10/2002	
Pyrene	EPA 8310	C2I1015	50	ND	10	9/10/2002	9/10/2002	
<i>Surrogate: 2-Methylanthracene (35-125%)</i>								
67 %								

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 Clifton J. Kiser
 PM Supervisor

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CLH0334 <Page 2 of 5>

BOE-C6-0007441



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STL Los Angeles
 1721 S. Grand Avenue
 Santa Ana, CA 92705
 Attention: Diane Suzuki

Client Project ID: E2H300298

Report Number: CLH0334

Sampled:08/30/02

Received:08/31/02

METHOD BLANK/QC DATA

POLYNUCLEAR AROMATIC HYDROCARBONS (EPA 8310)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Data Qualifiers
---------	--------	-----------------	-------	-------------	---------------	-----------	-------------	---------	-----------	-----------------

Batch: C2I1015 Extracted: 09/10/02

Blank Analyzed: 09/10/02 (C2I1015-BLK1)

Acenaphthene	27.1	50	ug/kg							J
Acenaphthylene	ND	200	ug/kg							
Anthracene	ND	2.0	ug/kg							
Benzo(a)anthracene	ND	2.0	ug/kg							
Benzo(a)pyrene	ND	2.0	ug/kg							
Benzo(b)fluoranthene	ND	5.0	ug/kg							L
Benzo(g,h,i)perylene	ND	5.0	ug/kg							
Benzo(k)fluoranthene	ND	2.0	ug/kg							
Chrysene	ND	5.0	ug/kg							
Dibenz(a,b)anthracene	ND	5.0	ug/kg							
Fluoranthene	ND	5.0	ug/kg							
Fluorene	ND	5.0	ug/kg							
Indeno(1,2,3-cd)pyrene	ND	5.0	ug/kg							
Naphthalene	28.2	40	ug/kg							J
Phenanthrene	0.469	5.0	ug/kg							J
Pyrene	ND	5.0	ug/kg							
<i>Surrogate: 2-Methylnanthracene</i>	<i>4.14</i>		<i>ug/kg</i>	<i>8.00</i>		<i>52</i>	<i>35-125</i>			

LCS Analyzed: 09/10/02 (C2I1015-BS1)

Acenaphthene	172	50	ug/kg	160	108	45-115				M-NR
Acenaphthylene	358	200	ug/kg	320	112	65-150				
Anthracene	12.5	2.0	ug/kg	16.0	78	50-115				
Benzo(a)anthracene	17.8	2.0	ug/kg	16.0	111	70-115				
Benzo(a)pyrene	10.4	2.0	ug/kg	16.0	65	40-115				
Benzo(b)fluoranthene	37.3	5.0	ug/kg	32.0	117	70-115				L
Benzo(g,h,i)perylene	35.9	5.0	ug/kg	32.0	112	65-115				
Benzo(k)fluoranthene	16.3	2.0	ug/kg	16.0	102	70-115				
Chrysene	18.0	5.0	ug/kg	16.0	112	70-115				
Dibenz(a,h)anthracene	36.6	5.0	ug/kg	32.0	114	70-115				
Fluoranthene	36.1	5.0	ug/kg	32.0	113	75-115				
Fluorene	34.9	5.0	ug/kg	32.0	109	60-115				
Indeno(1,2,3-cd)pyrene	18.1	5.0	ug/kg	16.0	113	70-115				
Naphthalene	149	40	ug/kg	160	93	60-120				
Phenanthrene	17.1	5.0	ug/kg	16.0	107	70-115				
Pyrene	17.0	5.0	ug/kg	16.0	106	60-115				

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 PM Supervisor

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STL Los Angeles
 1721 S. Grand Avenue
 Santa Ana, CA 92705
 Attention: Diane Suzuki

Client Project ID: E2H300298

Report Number: CLH0334

Sampled:08/30/02

Received:08/31/02

METHOD BLANK/QC DATA

POLYNUCLEAR AROMATIC HYDROCARBONS (EPA 8310)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC Limits	RPD RPD	RPD Limit	Data Qualifiers
<u>Batch: C2I1015 Extracted: 09/10/02</u>									
LCS Analyzed: 09/10/02 (C2I1015-BS1)									M-NR
Surrogate: 2-Methylnanthracene	4.02		ug/kg	8.00		50 35-125			
LCS Dup Analyzed: 09/10/02 (C2I1015-BSD1)									M-NR
Acenaphthene	162	50	ug/kg	160	101	45-115	6	20	
Acenaphthylene	325	200	ug/kg	320	102	65-150	10	25	
Anthracene	11.8	2.0	ug/kg	16.0	74	50-115	6	20	
Benzo(a)anthracene	16.7	2.0	ug/kg	16.0	104	70-115	6	20	
Benzo(a)pyrene	10.8	2.0	ug/kg	16.0	68	40-115	4	25	
Benzo(b)fluoranthene	35.1	5.0	ug/kg	32.0	110	70-115	6	20	L
Benzo(g,h,i)perylene	34.5	5.0	ug/kg	32.0	108	65-115	4	20	
Benzo(k)fluoranthene	15.9	2.0	ug/kg	16.0	99	70-115	2	20	
Chrysene	16.9	5.0	ug/kg	16.0	106	70-115	6	20	
Dibenz(a,h)anthracene	34.7	5.0	ug/kg	32.0	108	70-115	5	20	
Fluoranthene	33.2	5.0	ug/kg	32.0	104	75-115	8	30	
Fluorene	32.2	5.0	ug/kg	32.0	101	60-115	8	20	
Indeno(1,2,3-cd)pyrene	17.2	5.0	ug/kg	16.0	108	70-115	5	20	
Naphthalene	138	40	ug/kg	160	86	60-120	8	20	
Phenanthrene	15.7	5.0	ug/kg	16.0	98	70-115	9	20	
Pyrene	15.8	5.0	ug/kg	16.0	99	60-115	7	20	
Surrogate: 2-Methylnanthracene	3.94		ug/kg	8.00	49	35-125			

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 Clifton J. Kiser
 PM Supervisor

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STL Los Angeles
1721 S. Grand Avenue
Santa Ana, CA 92705
Attention: Diane Suzuki

Client Project ID: E2H300298

Sampled:08/30/02

Report Number: CLH0334

Received:08/31/02

DATA QUALIFIERS AND DEFINITIONS

- J** Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of unknown quality.
- L** Laboratory Control Sample recovery was above the method control limits. Analyte not detected, data not impacted.
- M-NR** No results were reported for the MS/MSD. The sample used for the MS/MSD required dilution due to the sample matrix. Because of this, the spike compounds were diluted below the detection limit.
- RL-1** Reporting limit raised due to sample matrix effects.
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- NR** Not reported.
- RPD** Relative Percent Difference

Del Mar Analytical, Colton
Clifton J. Kiser
PM Supervisor

000061

*The results pertain only to the samples tested in the laboratory. This report shall not be reproduced,
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BOE-C6-0007444

**Chain of
Custody Record**

STL-4124 (0901)

Client SIL LOS ANGELES

Project Manager

DIANE SUZUKI

**SEVERN
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DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

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